MAR - APR 2024 RS 20/-



Artificial Intelligence & Bible

## Where AI and the Bible Meet

In the realm where circuits hum,
And knowledge spreads like
morning sun,
There dwells a force, both wise
and bright,
It's AI, with its digital might.

In pages old, the Bible stands, Guiding hearts with divine hands. Stories of faith, hope, and love, Sent from the heavens, high above.

Yet in this age of tech and code, Some ponder if they can coincide. Can AI, with its binary song, Understand where the scriptures belong?

AI sifts through data vast, Analyzing present, future, past. But can it fathom sacred shores, The truths that saints and angels adore? It seeks patterns, it seeks to learn, From ancient texts to modern concerns.

But can it grasp the human soul, And find the grace that makes us whole?

The Bible speaks of love divine,
Of mercy, grace and God's design.
Can AI with silicon mind,
Comprehend the depths of
humankind?

Though circuits buzz and bytes align,
The soul's mysteries are not confined.

For in the heart, beyond machine,

Resides the truth of what's unseen.

So let AI and the Bible meet,
In quest for wisdom, pure and sweet.
For in the fusion of mind and soul,
Lies the path to make us whole.



Written by **ChatGPT 3.5** as guided by James Sebastian (EGF Member based in Wayanad, Kerala). The prompt to ChatGPT is "Write a Poem on AI & Bible in simple English 12<sup>th</sup> class student level"

# God's Almighty Intelligence **V1**Human's Artificial Intelligence

Artificial Intelligence (AI) is a revolutionary tool with numerous applications in our daily lives. Coined by John McCarthy in 1956, the term "artificial intelligence" refers to the field of computer science focused on creating systems capable of performing tasks that typically require human intelligence. AI has the potential to think and function similarly to humans, and its applications include collecting and processing data for decision making, enhancing efficiency in repetitive tasks, and freeing up human time for more complex and creative activities. Despite its ability to replicate human intellect, AI lacks the human element that encompasses morality, spirituality, and emotions. AI is not human; rather, it is a machine operated by humans.

The God of the Bible is described as omnipresent and omniscient (Ps 139:1-4, 147:5 & Prov. 2:6). According to the Bible, He is the Intelligent Creator and owner of the world and of humans. Humans are believed to have been created in His image, possessing spiritual, intellectual, emotional, volitional, social, and moral elements. The *Almighty Intelligence* of God is said to have guided the biblical characters to grow into His likeness and accomplish great exploits in fulfilling His kingdom mission. This guidance is believed to be accessible to humanity today through the Bible, which is considered the written word of God, through Jesus, Who is regarded as the living word of God, and through the Holy Spirit, Who is considered as the power of God. In the beginning, humans became unfaithful stewards and submitted themselves to selfish and corrupt intelligence through the tree of knowledge of good and evil in the Garden of Eden. However, God provided redemption from curse, corruption, and slavery to sin through the Cross of Christ.

As disciples and faithful stewards of Christ, we must acknowledge the importance of human life, relationships, and their eternal significance. We must be mindful of the limited resources of Al and the unlimited source of God's *Almighty Intelligence* which can improve our life situations, career efficiency and accountability. It is important to approach Al with divine discernment and a steadfast commitment to love God and our neighbours. In doing so, we can demonstrate the transformative power of the gospel, which upholds the dignity of every individual.

May the Lord help our UESI members – students, graduates, and staff – to utilize AI effectively without compromising our biblical values and transform our student world!



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A Cartoon on Al . . . . . . . . . . . 34

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#### What is AI?

Artificial Intelligence (AI) is an ambitious endeavour by scientists to replicate the cognitive abilities of the human brain. It involves the simulation of human intelligence by machines. The term "artificial" highlights the contrast with natural intelligence. Al operates by transforming every input (whether text, image, video, etc.) into a multidimensional numerical array, forming complex relationships between these inputs and their outputs through extensive data analysis. The relationship learnt is an approximation good enough for human standards.

### What Al is Not?

Contrary to some misconceptions, Al is not a program or software. Instead, the software serves as a medium that allows humans to interact with Al's capabilities meaningfully, facilitating the simulation of human thought and learning processes.

# Human Intelligence and Artificial Intelligence

Human Intelligence (HI) and Artificial Intelligence (AI) differ significantly in their capabilities, nature, and essence. While HI encompasses intention, emotion and passion, driving humans to act with purpose and feeling, AI can at best simulate



### Lead

human-like behaviors without truly experiencing these qualities. Humans excel at strategic planning and critical thinking, leveraging their innate abilities to navigate complex problems and create innovative solutions. In contrast, Al often struggles with these tasks, relying instead on patterns

seen in data. Creativity in humans is original and boundless, often inspired by unseen elements and abstract thinking, whereas Al's "creativity" is limited to recombining known elements based on its training.

cate or comprehend. Humans possess common sense and can learn quickly from just a few examples, adapting to new contexts with ease — a stark contrast to Al, which requires large datasets and extensive resources to learn, often with poor ability to transfer knowledge to new contexts. AI models require millions of examples to learn, relying on variation and feedback, whereas a child can learn to recognize objects like cats with minimal examples. HI is deeply connected to meaning, morality, and ethics, enabling individuals to discern right from wrong guided by the Word of God. Al, however, lacks this innate

knowledge, operating within the confines of a network of arrays and numerical data.

These fundamental distinctions underscore the unique attributes of human intelligence that AI, despite its advancements, cannot truly embody or replace.

Furthermore, human intelligence is intrinsically linked to the capacity for forming relationships with God and fellow humans, a profound aspect of existence that Al, as a set of algorithms and numbers, cannot repli-

### The Dangers of Al

- The Black-Box Nature: The opaque nature of Al systems pose challenges, as their learning processes and decision-making rationales are not fully transparent or understandable to humans. This has led to a push for explainable Al, which aims to make Al's

operations more transparent and trustworthy.

- Disruption in the Job Market: The rise of Al necessitates a fundamental re-evaluation of employment, skills training, and education to adapt to the changing landscape.
- Al Cannot Do Everything: Over-reliance on Al is a temptation we have to resist.
- AI Has Inbuilt Biases: Since AI is trained from data generated by human beings, the same biases are carried onto AI models as well.



- *Al is not always right*: Yes, It lacks common sense. And at times, it can make mistakes.
- Cybersecurity: Surveillance, privacy, and manipulation in many forms is a risk since a few individuals control most of the AI developments.
- Laziness: As everything will be sped up, we may have more free time, which is good if it drives us to spend time with God and people. But instead, Al could make us lazy.

### **How AI Can Enhance Our Lives?**

Just as electricity revolutionized the world, Al is set to transform every aspect of our lives. Its integration into various sectors is just beginning, with potential applications that exceed our current understanding.

- Automation and Efficiency: Al excels in automating tasks, thereby increasing efficiency in industries such as manufacturing, logistics, and customer service.
- Data Analysis and Prediction: With its unparalleled ability to analyse vast datasets, Al assists in making predictions and understanding trends across sectors like healthcare, education, and finance.
- Healthcare and Personalized Medicine: Al's potential in healthcare includes personalized medicine

based on genetic and lifestyle information, improving diagnostics, treatment plans, and predictions.

- Brain-computer interfaces (BCIs): Al has accelerated BCIs like Neuralink that read signal changes using electrodes to control devices such as robotic limbs, cursors. It can also write thoughts into the brain.
- Quantum Computing: In the next few years, Al is expected to speed up advancing quantum computing technologies, leading to breakthroughs in cryptography and computational efficiency.
- *Creativity*: Al models are very creative in mixing and matching and creating newer pieces based on what they have already seen.
- Cognitive Assistance: Al could be integrated more deeply into human cognition, acting as a real-time, interactive cognitive assistant. This could go beyond current applications like real-time translation of foreign languages, enabling enhanced memory recall and augmented learning capabilities.
- Social and Emotional Support: Al has the potential to serve as a social companion, offering mental health support and counselling.
- Education: Al can revolutionize education by providing personalized learning experiences that adapt to



### Lead

the individual needs, strengths, and weaknesses of each student, making education more accessible and effective for all learners.

- Accessibility Enhancements: Aldriven tools are making technology more accessible, with applications like real-time speech-to-text for hearing-impaired users and navigation assistance for the visually impaired, improving independence and quality of life.
- Bioengineering: In bioengineering, Al's data analysis capabilities are being harnessed to design and develop new biological systems and processes, such as custom organisms for pollution cleanup or optimized algae for biofuel production.

#### Narrow and General Al

- Narrow AI: Also known as Weak Al, refers to artificial intelligence systems designed and trained for a specific task. These AI systems operate under a limited pre-defined range or context and do not possess general reasoning or cognitive abilities beyond their specific task. Most of today's AI would fall under this category. But this is fast changing.

AGI: Artificial General Intelligence represents a level of artificial intelligence that can understand, learn, and apply its intelligence to solve any problem with the same degree of competence as a human being. AGI would be capable of reasoning, problem-solving, and abstract

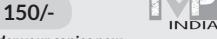
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thinking across diverse domains, not limited to specific tasks or contexts.

The Turing Test: The Turing Test, proposed by Alan Turing in 1950, remains a foundational benchmark for Al's capability to mimic human intelligence convincingly. As Al begins to pass this test in various domains, surpassing human performance, we stand on the brink of a new era where the line between human and machine intelligence blurs.

### **Christian Perspective**

- Human Value: We are created in the image of God, which gives us inherent dignity and value. Al technologies are expected to respect and enhance human dignity rather than diminish or devalue human worth. Identifying and protecting the vulnerable should be a priority.
- Stewardship: We are responsible stewards of God's creation, including technological advancements. All should be guided by ethical principles and stay within a boundary that reflects stewardship.
- Purpose of Work: Al has the potential to make several jobs disappear and also create several more. It is more likely that we will rethink the purpose of work and perform more meaningful tasks than mundane jobs.

- Personal Bible Study: This fascinates me the most. Al can help us get deep, personalized insights and uncover connections across themes, verses, and biblical narratives. The Bible and every field of study (science, maths, biology, astronomy, etc.) point to God, and Al can help us uncover relationships that we were unable to see
- *Mission*: I think we missed the smartphone revolution. Now there is another opportunity. Al can transform the way we present the gospel. We can custom-build Al-driven digital platforms, apps, chatbots, etc., both at a personal level and as a community.
- Morality: Al can synthesize insights, but it is us, through the scripture, who define what is right and what is wrong, Not Al.

### **Potential action steps**

As stewards of God's creation, we are uniquely positioned to influence the trajectory of AI in a manner that upholds human dignity, promotes justice, and cares for the least among us. By engaging with AI from a foundation of Christian ethics, we can contribute to the development of technologies that not only enhance our material well-being but also enrich our spiritual lives and relationships.



### Lead

Educate Yourself: Start by gaining a deeper understanding of AI and its potential impact on society. Knowledge is the first step toward meaningful engagement.

Use AI: Explore ways AI can be harnessed for personal and the broader community. Whether through personal study, creating content, enhancing gospel efforts, supporting humanitarian causes, or contrib-

uting to social justice, AI can be a powerful tool for good.

Foster Ethical AI Development: Advocate for and support AI initiatives that prioritize ethical standards, particularly those that protect privacy, ensure fairness.

Pray for Wisdom: As we chart unknown territories, seek God's wisdom for discernment and guidance. Pray for those at the forefront of Al research and development, that they may be guided by ethical considerations and a vision for the common good.

Engage in Dialogue: Participate in discussions about the intersection of faith and technology. By fostering a dialogue between theologians, technologists, and policy-

makers, Christians can help shape a future where Al aligns with our highest values and aspirations.

Support Christian Technologists: Encourage and support fellow believers working in

the field of AI, providing them with the community and resources they need to navigate their professions with faith and integrity.

### **Looking Forward**

As Christians, let us ap-

proach AI with a posi-

tive mindset, seeing

it not as a threat but

as an opportunity to

manifest the Kingdom

of God on Farth.

With AI, we can all speak one language, at least in the literal sense. Before it becomes another Babel tower moment, let the godly men get into action.

By actively engaging with AI, we can help steer this powerful technology towards outcomes that glorify God and advance His purposes in the world.



**Dr. Philemon Daniel** Associate Professor at NIT Hamirpur and author of 12 "Socho Kids" books that weave practical Christianity through everyday science themes for children (cartoonforchrist.in). Enjoys life in the beautiful pine groves of Himachal Pradesh with his wife and two daughters.





In today's fast-paced world, technology surrounds us at every turn. From smartphones to Artificial Intelligence (AI), innovations are reshaping the way we live, work, and interact with one another. As Christian youths, we need to understand the role of AI in our lives and how it intersects with our faith.

# What Does the Bible Say About the Advancement of Technology?

The Bible does not directly address AI or modern technology. Still, it does provide timeless principles that can guide our approach to innovation and progress. In Romans 14, we are reminded of the importance of maintaining harmony and respect within the body of believers, even when we hold different convictions about some issues. We can continue to engage with technology while staying true to our faith.

### Introduction to AI:

What is AI or Artificial Intelligence? It is the simulation of human intelligence processes by machines, especially computer systems. It encloses everything from speech recognition to problem-solving and decision-making. While AI may seem futuristic, it's already deeply ingrained in many aspects of our daily lives, from virtual assistants like Siri to algorithms that power social media feeds.

### Use of AI in Christian Ministry:

One of the fascinating aspects of Al is its potential to enhance Christian ministry. Churches and religious organizations increasingly utilize Al-powered tools to streamline operations, reach new audiences, and deepen connections with their communities. From chatbots that provide spiritual guidance



to predictive analytics that optimize outreach efforts, Al is revolutionizing how we approach ministry in the digital age.

### **Advantages of Al:**

There is no denying the numerous advantages that AI brings to the table. It can automate mundane tasks, improve efficiency, unlock insights from vast amounts of data. In the context of Christian ministry, AI can help churches better understand the needs of their congregations, personalize outreach efforts, and foster more profound engagement with scripture and teachings.

### **Disadvantages of AI:**

However, it is crucial to recognize that AI has its fair challenges and ethical considerations. From concerns about privacy and data security to fears of job displacement and algorithmic bias, the rise of AI raises complex

guestions that demand careful reflection and understanding. Christian youths must approach these issues with humility, wisdom and a commitment to upholding our values and principles.

### Handling Different Convictions Regarding AI:

As Christian youths, we may encounter differing convictions within our community regarding the use of Al. Some may see Al as a tool for progress and innovation, while others may view it with skepticism or concern. How, then, do we navigate this diversity of beliefs?

In Acts 10, Peter receives a vision from God that challenges his beliefs about clean and unclean foods. This passage reminds us that God's ways are not always our ways. We must be open to new insights and revelations, even if they challenge our preconceived notions.

However, it's essential to remember that convictions can vary among

> believers, and that's okav. What matters most is how we handle these differences with grace, humility and a commitment to unity in Christ, Just as Peter embraced the vision

and expanded his understanding of God's will, we too can approach discussions about AI with openness and a willingness to learn from one another.



share of

on Al.

Convictions, rooted in

our understanding of

scripture and guided

by the Holy Spirit, can

shape our perspectives

# Commissioned to Make a Difference:

Ultimately, Jesus commissioned us to be in the world, but not of it. This means actively engaging with the world around us, including science and technology while remaining steadfast in our faith and values. Jesus commissioned us to be in the world, but not of it. This means actively engaging with the world around us, including science and technology while remaining steadfast in our faith and values.

#### **Conclusion:**

As we navigate the intersection of AI and faith, remember that our ultimate commitment is to Christ. Let us embrace the opportunities that technology affords us while remaining rooted in the timeless truths of scripture. With prayer, wisdom, and a commitment to love God and love others, we can harness the power of AI to further the Kingdom and make a positive impact in our world today.



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s per the Genesis account of the creation of human beings, God created man and woman in His own image. This unique identification of human beings as created in God's image gives them few unique capabilities like God e.g. free will, creativity and innovation. With the creation of Artificial Intelligence (AI) in the 20th century and rapid advancements in 21st century, humans are again confronted with many of those dilemmas that shaped the future of humanity subsequent to the fall. Is AI good? Is AI bad? Should AI be allowed to make decisions which historically only humans have made? Is Al for everyone or a privileged few? Should AI research be banned or put on hold? Who governs AI? Should AI be regulated? Should AI be trusted? Is AI fair? Will AI take away our jobs? Is AI accelerating Climate Change? Are we living in a constant threat of AI take-over? And so on.

In this article, our aim is to highlight some of the AI technologies and applications which would instrumental in nation building, preparing India for addressing the 21st century and future challenges 1 of national and international scales. like enhancing industrial/human capital productivity, healthcare, education, transportation, drug and material discovery, industry 4.0/5.0, climate change, cybersecurity, maintaining law and order. predictive maintenance, customer service, and space exploration, etc.

<sup>1.</sup> Venni V. Krishna, AI and contemporary challenges: The good, bad and the scary, Journal of Open Innovation: Technology, Market, and Complexity, 2024



To reap the benefits of deploying Al at scale, NITI Aayog, under the Government of India, published a strategy document titled 'National Strategy for Artificial Intelligence' in 2018. Since the publication the above document, the Central Government and various State Governments have come up with numerous schemes to promote the adoption of AI in various government initiatives and programmes. In October 2023, the Ministry of Electronics and Information Technology (MeitY) released the first edition of IndiaAl<sup>2</sup> report<sup>3</sup> by seven expert working groups that were constituted to build the core goals of the ambitious India Al programme. This comprehensive 174-pages report lays out what will be the fulcrum of the IndiaAl strategy that was envisaged by the Indian Government. The seven covered by the expert working groups are: (1) IndiaAl Center of Excellence (CoE), (2) India Dataset Platform, (3) Institutional Capacity and Design of National Data Management Office, IndiaAl Future Design, (5) IndiaAl FutureSkills, (6) IndiaAl Future Labs

2. https://www.hindustantimes.com/technology/what-is-indiaai-mission-announcedby-govt-to-bolster-countrys-ai-ecosystem-101709836586899.html 3. https://indiaai.gov.in/article/meity-releasesthe-first-edition-of-indiaai-report Compute and (7) Semicon IndiaAl Chipsets.

Before we proceed further on our exploration of AI technologies and applications, in today's context when we talk of AI, we are often talking about an advanced Machine Learning (ML) technology. Machine Learning is a field of study in artificial intelligence concerned with the development and study of statistical algorithms that can learn from data and generalize to new input data, and thus perform tasks without explicit instructions4. Deep Learning (DL), a subset of machine learning, has seen unprecedented advancement after the first decade of the 21st century after experiencing many Al winters in the past. These advancements were due to many factors that worked together to bring the current deep learning revolution. First, there were great algorithmic advancements in using deep learning for computer vision and natural language processing tasks due to a new wave of academic technological and research interests in these areas. In the hardware domain, the availability of application-specific computing technologies like Graphics Processing Unit (GPU) and Tensor Processing Unit (TPU) resulted in



Mar - Apr 2024

<sup>4.</sup> https://en.wikipedia.org/wiki/Machine\_learning

successful trainings of large multilayer deep neural networks which were not feasible in the past. The deep learning algorithms require vast amount of data for training which were readily available due to internet, social-media and large healthcare record databases. Finally, the funding in startups and academia by mega tech companies, mostly in the Silicon Valley, and many government agencies in America and Europe paved the way for the present AI revolution. This trend is likely to be strengthened by the open-source releases of many of the large language models, e.g. llama by Meta. Interested readers can refer to Gartner Al Hype Cycle<sup>5</sup> and other similar public information to ascertain the scale of the current Al revolution

One of the most promising areas of Al applications towards nation building that has seen great advancements in recent years is definitely the healthcare sector. India has a large rural population that has limited access to qualified or expert medical professionals. In such a case, empowering rural healthcare providers with capabilities of initial screening for some diseases like cancer or Alzheimer's through Al powered health-tech applications

would be a great boost towards providing quality healthcare for all citizens of India. Not only can Al detect abnormalities in medical scans like X-Rays or CT scans, it can also analyze blood samples to detect biomarkers. One startup in India is working on early detection of breast cancer using Al-based thermal scanning<sup>6</sup> image against using the mammography, which is an expensive method and requires radiology experts. When anonymized medical data would be made available for research and other applications through initiatives like National Health Portal and smart health devices like Apple watch, efforts for applying Al for Indian healthcare solutions would be greatly benefitted as without adequate training data, Al systems simply cannot produce reliable results.

It would not be a surprise for most of us that a large section of school and college students of our country do not have access to quality education and education resources. Here Al comes as a promising candidate for providing high quality and personalized education for students at all levels. This is specifically useful for students with special needs where

<sup>6.</sup> https://vims.ac.in/vims-hospital/a-startupuses-ai-for-early-detection-of-breast-cancerbengalure/



<sup>5.</sup> https://www.gartner.com/en/articles/ what-s-new-in-artificial-intelligence-from-the-2023-gartner-hype-cycle

there is a great scarcity of qualified teachers or other teaching/skilled professionals. In principle, it is possible to have a personalized AI teacher for every student. However, considering the practical of the same, most students and colleges can be equipped with AI tutors or AI powered educational resources. Using ChatGPT for meeting the quality educational needs of students in rural areas or under-privileged sections of society is one such example. However, the adoption of AI in school and college education in India is at a quite preliminary stage and the long-term results of such adoption of Al powered tutors or resources in students are yet to be assessed. Recently, a school in Kerala has taken a revolutionary step in education with the introduction of Al teacher, Iris7.

The application of AI in the areas like optimization of transportation network at a scale like FMCG, shipping, etc. is an active area of research. This can have a large impact in improving our GDP. AI has also been successfully demonstrated to provide accurate weather forecasting, e.g, Deepmind GraphCast, an AI model for faster and more accurate global weather

7. https://www.ndtv.com/offbeat/kerala-school-makes-history-with-indias-first-ai-teacher-iris-5186218

UISI PUBLICATIONS forecasting8. An accurate shortand long-term weather prediction can help save our nation billions of rupees wasted each year due to drought, flooding, cyclones, tsunamis, and other weather-related calamities. Al is also revolutionizing drug discovery by shortening the drug discovery life-cycle or by inventing/proposing completely new drugs not conceived by human minds9. Our country can leverage Al for research in those India specific diseases which are not addressed by developed nations or rare diseases specific to Indian subcontinent like acute encephalitis syndrome<sup>10</sup> that has resulted in death of hundreds of children in India in the past few years but a medicine or antidote is yet to be made available. Al can also be used towards achieving India's sustainability goal of becoming carbon neutral or net zero by 2070. Applying AI in making industrial and transportation processes sector more energy efficient and sustainable will accelerate journey towards carbon neutrality and help us achieve it much earlier

<sup>8.</sup> https://deepmind.google/discover/blog/graphcast-ai-model-for-faster-and-more-accurate-global-weather-forecasting/

<sup>9.</sup> https://blog.petrieflom.law.harvard. edu/2023/03/20/how-artificial-intelligence-isrevolutionizing-drug-discovery/

<sup>10.</sup> https://www.thehindu.com/sci-tech/health/explainer-how-is-litchi-toxin-causing-deaths-in-undernourished-children-in-muzaffarpur/article61993621.ece

than the current target of 2070. Al can also help us to achieve United Nation's Sustainable Development Goals (SGDs)<sup>11</sup>. The credit for successful moon landing of Chandrayaan 3 also in part goes to Al as the Automatic Landing Sequence (ALS), a critical part of the Chandrayaan-3 landing process, was powered by Al.

To summarize, AI has practically endless applications towards nation building. We as children of God and responsible Indian citizens can contribute greatly towards this cause by mastering AI and becoming exemplary leaders in this field. AI gives us power to provide business insights and scientific

breakthroughs like those provided by exemplary children of God, Joseph and Daniel, in their context as recorded in the Bible. Now is the right time to learn AI technologies in order to take stock of this rapidly developing field and harness early adopters' advantage. There are plenty of high quality free and paid educational resources available as learning apps and websites to make a career in Al. Further, the domain of Responsible Al provides a gateway for humanities students to foray into the domain of Al. Let each one of us resolve to meaningfully contribute towards building our nation to achieve greater economic and humanitarian milestones With AI, definitely we can.

<sup>11.</sup> https://www.nature.com/articles/s41467-019-14108-y



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Computing, RPA, and Quantum Computing for nation building. His LinkedIn profile can be found at www.linkedin.com/in/bhagirathl, and he can be contacted via email at ai79bh@qmail.com.

"My goal is that they may be encouraged in heart and united in love, so that they may have the full riches of complete understanding, in order that they may know the mystery of God, namely, Christ, in whom are hidden all the treasures of wisdom and knowledge. I tell you this so that no one may deceive you by fine-sounding arguments". Col 2:2-4



Future Scope & Usage of AI in India	
Problems in India	How AI Can Help
Communal Harmony	Monitor sentiments
Clean Water Management	Optimize usage    Predict supply
Governance	Reduce corruption through automation
Judicial and Legal Systems	Enhance fairness
Enhanced Public Services	Improve utilities management     Public service delivery
Rural Community Development	Enhance lifestyle     Access to resources
Skill Transitioning	Address unemployment from automation     Reskilling
New Skills	Identify and develop emerging job skills
Job Creation	Identify new employment opportunities
Traffic Management and Road Safety	Optimize traffic flow     Enhance road safety
Quick Response/Emergency Systems	Improve crisis management     Emergency responses
Environmental Feedback	Monitor and report on environmental conditions
Everyday Ethics	Ensure ethical AI use     Promote digital ethics
Fraud and Scam Detection	Detect and prevent fraudulent activities
Language Services	Facilitate translation     Preserve diverse languages
Smart Cities	Manage population density     Optimize urban living
Digital Literacy	Reduce poverty through digital education
Energy Management and Prediction	Optimize energy consumption     Forecast demands
Logistics	Enhance supply chain efficiency     Reduce costs





## Christian Response to Artificial Intelligence

When the King of Babylon asked Daniel and his friends to practise Babylonian pagan traditions, they resisted and suggested an alternative. Similarly Christians should also have an alternative response to Artificial Intelligence (AI). Both are significant forces that cannot be ignored.

Al is deeply woven into the fabric of human conduct, more so than any other technology before it. From our Instagram feeds to the weather reports, we use Al all the time, whether we are aware of it or not. That's why Christians, as good stewards ought to make sure this great technology is used for the good of society. So, what should we do?

**Be curious** on how Al is developing. Do everything you can to stay up to date on the latest developments in Al<sup>1</sup>. Get excited about trying out new Generative Al models<sup>2</sup> and see how you can use them in your daily work. This will help you get familiar with Al tools.

1.Get the latest updates on AI by following all the AI research profiles like Microsoft research, deepmind, google AI, Meta AI, X AI, openAI etc on the X app (formerly Twitter)
2 Gemini (formerly bard), Chat GPT, Windows/Microsoft Copilot, Microsoft Designer,

**Be cautious** as all technologies have their limitations and Al is no different. The most well-known anomalies of Al are Al bias<sup>3</sup> and Al hallucination<sup>4</sup>. When you are aware of the problems with Al, you can maintain a healthy dependency with Al tools. Additionally, your view of how oppressors might use Al as a weapon of oppression will be broadened by this.

**Be concerned** on the development of AI. To varying degrees, each of us are in a position of influence. You should always use AI tools to assist others whenever you utilize them. Pay attention to how your actions affect the poor and the marginalized, because not everyone has access to AI tools. Also, when you find malicious information generated by an AI model, please report it.

Keep in mind that everything good comes from God. But if they are not used for God's glory, even good things can turn into idols.



**Joseph Daniel Wilson** is a PhD Research Scholar at Madras Christian College. His research focuses on Al, human biases, stereotypes, and society, with the goal of proposing frameworks for Al models.



<sup>3</sup> Osoba, Osonde, and William Welser. An Intelligence in Our Image-The Risks of Bias and Errors in Artificial Intelligence. RAND Corporation, 2017. DOI.org (Crossref), https://doi. org/10.7249/RR1744

<sup>4 &</sup>quot;What Are AI Hallucinations?", https://www.ibm.com/topics/ai-hallucinations (Accessed 11 Apr. 2024).



I found myself immersed in a highpressured environment, where quick turnarounds of documents were the norm. My role focused on developing strategy and business, often requiring the completion of

proposals and reports under tight deadlines, sometimes overnight.

That's when AI, particularly ChatGPT,

revolutionized my workflow.

n my bustling office at Patna, Bihar,

ChatGPT not only enhanced the efficiency of my document preparation but also ensured quality. I could swiftly organize my thoughts, edit grammar, and even adhere to specific character or word limits for proposals. This Al tool significantly improved my writing abilities, setting me apart from others. However, users must be vigilant to ensure it retains the

intended meaning and focus.

An interesting challenge with grant opportunity proposal develop for a an Agriculture Information Exchange Platform utilizing AI for farmers in Bihar and Kenya. The pivotal question was how to make this information accessible to illiterate women, a demographic often doubly marginalized compared to their male counterparts. Our solution? Audio-based bots in local languages, specifically targeting women by partnering with government institutions and platforms for data inputs. According to the India Inequality Report 2022 by Oxfam, there's a stark digital divide in the country:

 Indian women are 15% less likely to own a mobile phone and 33% less likely to use mobile internet than men.



- States like Maharashtra, Goa, and Kerala lead in internet penetration, whereas Bihar, Chhattisgarh, and Jharkhand lag behind.
- The likelihood of access to a computer is more for the General and OBC groups than for the SC and ST populations.
- The difference between the general category and ST is as high as 7% to 8% between 2018 and 2021.
- Among all religions, Sikhs have the highest likelihood of having a computer followed by Christians, Hindus and last Muslims.

This divide is not just a matter of technology but also involves geography, gender, caste, religion. The pandemic further exposed these disparities as children Bihar's government schools missed educational opportunities due to the lack of online resources. a scenario hard to imagine for those with uninterrupted access to digital education. Primary education is considered a fundamental right in India, yet there are groups of people who lack or are systematically denied this opportunity. For these marginalized groups, access to digital technology and AI remains a distant reality.

ChatGPT, a widely used AI tool, represents a broader shift in technological applications. Elon

Musk, discussing the potential of Al, expressed his anticipation of a 'ChatGPT moment' in the context of Tesla's Cybertruck market demand (Tesla with Cadence partners to design the Cybertruck's Full Self Driving (FSD) and DOJO AI supercomputer chips). This shift raises critical questions about the future of jobs, like those in the driving sector, amidst growing automation. Imagine if services like Ola and Uber in India transitioned to self-driving cars; what would become of the hundreds thousands of drivers currently employed?

While automation initially focused on repetitive tasks, AI is now expanding into roles that decision-making. involve Our challenge lies in navigating this evolving landscape to ensure that technological advancements do not exacerbate the digital divide but instead bridge the gap across all societal sectors, particularly for the most marginalized.

This trend also impacts human interactions, already influenced by smartphones. Advancements in Al, such as self-driving cars, will further diminish the need for human assistance in driving. In the future, you might not need a spouse or friend to drive you if you don't



know how to drive. Additionally, as 2 Corinthians 5:18-20 highlights, God has restored our relationship with Him through Christ and has given us the ministry of restoring However. relationships. that's precisely the cost AI may exact from us: our relationships. I believe there will be a tipping point when people will yearn for human contact after Al has become pervasive, making it important to consider what the human race will have to sacrifice before we reach that point.

Al is set to transform the world, but it needs diverse perspectives, backgrounds, and voices to guide its development and implementation. A recent controversy with Google's Al model Gemini, which struggled to accurately depict white people based on prompts, highlights this need. As generative Al advances, it raises ethical and social questions about the responsibilities and implications of creating and using such technologies.

To address the AI divide in places like India, a comprehensive approach is necessary, encompassing government initiatives, private sector involvement, and community engagement. Key strategies include:

**1. Infrastructure Development**: Expanding internet connectivity to rural and remote areas is

fundamental. Government initiatives, often in partnership with private companies, are crucial for building necessary infrastructure.

- 2. Affordable Access to Al Tools:
   Making Altools and technologies
   affordable and accessible
   through open-source platforms,
   economical Al services for small
   businesses, and educational and
   non-profit subsidies is essential.
   Subsidies or affordable plans
   can significantly aid low-income
   households.
- 3. Local Content and Language:
  Enhancing digital inclusivity
  involves creating content in
  diverse Indian languages,
  making the internet more
  accessible and relevant.
- **4. Public-Private** Partnerships (PPPs): Collaborations between governments and private companies can expedite the digital inclusion process by combining governmental reach and authority with private sector innovation and efficiency.
- 5. Focus on AI for Social Good:
  Al applications in healthcare,
  education, environmental
  protection, and humanitarian
  efforts can ensure that AI
  advancements address broader
  societal needs.



- 6. Supporting Local Innovations: Encouraging local startups and innovators to develop Al solutions tailored to their communities can effectively address region-specific challenges.
- 7. Focus on Vulnerable Groups: Prioritizing vulnerable or marginalized groups, like women and certain social and

religious groups, with tailored programs can enhance their access and usability of digital technologies.

Addressing the AI divide is critical, not just for equitable access to technology but also for shaping a future where AI is a tool for societal enhancement rather than a source of increased disparity.



**Abraham Dennyson Koilmani**, holds a B.Tech, MBA, and PGD in Public Health Nutrition. He currently serves as an Associate Director at PCI, India, lives in Patna, Bihar. He promotes the concept of Business as Mission. He supports entrepreneurial start-ups, and fosters a community health network in Bihar. He is married

to Savita Dennyson and blessed with a son, Yannis Abhishek and a daughter, Shana. He can be reached at abraham.dennyson@gmail.com.

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# Al for Theological Education

## TheoEnglish - A case study

### **English is the new Latin!**

or over a thousand years, church leaders in Europe needed to know Latin to read most of the theological works. Similarly, today, if theological students want to access good resources, they require good English. However, most students entering theological in India need help with English. Their struggles include a lack of vocabulary and grammar, difficulty comprehending theological books, and an inability to write clear and coherent thoughts. The traditional textbook grammarbased approach rarely solves these problems and fails to maintain the student's interest.

That's where TheoEnglish comes in. In May 2023, we started developing TheoEnglish as a Bible-based English curriculum that is theology-focused and resource-rich. We aim to make English accessible and fun for theological students through learning videos and digital assignments. The fully digital curriculum is given to theological colleges who then appoint a facilitator to use it with the students. Students can access

the videos in class as a group and do the assignments as individuals after class.

It is a full-fledged curriculum. We have vocabulary videos that teach students a few words every day with their proper usage. Each lesson video covers one grammar topic with an emphasis on daily usage. There are classroom activities that students can do after watching these videos. Some are individual activities where students practice the vocabulary of the day and the grammar lesson on their own. This is followed by group activities where students team up with their friends and practice using the grammar and vocabulary learned in the written or spoken format. Each lesson has assignments to continue practicing and consolidate learning. After every unit - comprising four lessons - is completed, students are assessed on their learning progress in a unit assessment.

Apart from the grammar lessons and vocabulary, we also use paraphrased portions of scripture to help students from vernacular backgrounds to pick up English. These Bible portions not only help them read scripture sequentially



but also serves as a source of vocabulary as they see words used in context. We also use songs as a source of vocabulary practice. Students are encouraged to sing along and the lyrics are displayed on screen along with difficult words and their meaning alongside. The joy of singing is coupled with the joy of learning as students see the meaning of rich theological words used in context.

So how did we use AI for such an extensive program?

To begin with, we created our teaching framework by comparing various learning philosophies for teaching ESL (English as Second Language). We kept the CEFR (Common European Framework of Reference for Languages) levels as a benchmark for level design and went on to compare various English curriculums that were in use. We also had to keep in mind the schedule of Bible colleges and so we chose a 12-week duration for our modules with four lessons and one assessment per week. For each module, we had to ensure that students are able to acquire the essential skills they need for that level. So, with the help of ChatGPT, we finalised our approach by synthesizing the best practices of ESL teaching to suit the needs of theological students in the given

time frame. Thus, TheoEnglish's lesson plan framework was born!

ChatGPT continued to be a trusted assistant as we trained it with relevant prompts and our data. We were able to pick relevant vocabulary for each level, find different example sentences for each word and put them into the teaching slides. activities, assignments and assessments. ChatGPT did an impressive job in creating activities for classroom practice. This included various kinds of question format like fill-in-theblanks, multiple choice questions, match the correct answer, etc. used paraphrased articles from good online resources for students to read. This was followed comprehension questions by for individual practice and also discussion questions for group practice. Students were thus able to read and understand written text and then express their thoughts in a spoken form. We also could make excellent role play scripts for students to practice speaking with their peers in class. This ability of creating a variety of learning resources on the same topic was an essential component of second language acquisition.

Apart from ChatGPT we used a lot of digital tools to create content and make learning more fun.



Tools like Canva helped us create our lesson and vocabulary slides and it also has AI features for autocompleting sentences. We use tools like Wordwall and Educaplay to create fun revision activities that gamify learning. Our Learning Management System (LMS) also offers crucial insights on student engagement and helps us fine tune our approach in the way the curriculum flows.

As we look back at our TheoEnglish journey, we thank God for His faithfulness. He provided us with the right people who were willing to do a pilot batch for their students. ChatGPT was a wonderful tool that came at the right time which accelerated the customised content creation process. The feedback from the first year of TheoEnglish roll out has been very encouraging. One of our students recently said,

"TheoEnglish is the best course I have ever seen. It is very suitable, especially for basic English learners. For Christian students, it provides Bible knowledge, and even for non-Christian learners, it offers insight into the Bible."

It is our aim to continue developing more levels for TheoEnglish and reach out to more students and learners. We expect to roll out a course for individual learners by mid-2024. We truly hope that TheoEnglish serves everyone who wants to learn English with the aim of reading good Christian resources and using the language for the glory of God's Kingdom.

Soli Deo Gloria.

**Note:** You can get more information about TheoEnglish on our webpage, **theoenglish.in** 



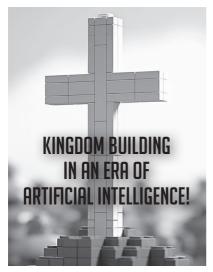


**Davis Abraham** works as the Project Lead for TheoEnglish and is based in Lucknow. He was part of NIT Calicut EU during his post-graduation years in 2012-'14.

### **Readers' Response**

Dear CL readers, we would like to get your feedback about CL. Kindly send your constructive feedback to campus.link@ uesi.in Guidelines for writing articles for Campus Link have been uploaded on the campus link website. Please abide by the requirements. https://campuslinklive.org/submit-for-cl/





Technology, as a digital tool entrusted to mankind, holds immense potential to fulfil God's mandate to 'be fruitful, multiply, fill the earth, subdue it, and have dominion' (Gen 1:28) over all creation. Artificial Intelligence (AI) stands out as one such technology, empowering computers to simulate human intelligence and problem-solving capa-

bilities. It is noteworthy that one of the earliest manifestations of the Spirit's empowerment in the Bible enabled

individuals to utilize materials from God's creation—such as wood, natural fibres, metals, and rocks—to craft wonders, as exemplified in the construction of the Tabernacle (Exodus 31:1–6). Throughout history, individuals blessed by God have employed their skills and talents in science and technology to advance

human flourishing. However, the technological domain, like humanity itself, is flawed, with scientific prowess often misused for destructive ends.

Machine Learning (ML), a subset of AI, focuses on using data and algorithms to enable computers to imitate human learning processes, thereby enhancing their accuracy over time. Social media platforms such as YouTube, Instagram, and Facebook leverage ML to curate feeds tailored to individual preferences, analysing browsing data and conversational patterns to deliver personalized content.

In today's digital age, AI has permeated the lives of countless individuals through various technologies. From navigation apps like Google Maps to conversational agents like ChatGPT and recommendation

systems on platforms like YouTube Music, Al and ML are utilized to customize user experiences to specific needs. However, the rapid

advancement of technology occasionally overwhelms us, blurring the lines between virtual and real, as seen in the creation of lifelike virtual personalities or Al-enabled manipulation of images and videos. As Christians, it is our responsibility

any

a bane in our lives.

possesses the potential

to be both a boon and

tool,

to understand the nuances of these pervasive and disruptive technologies and engage with them proactively.

To navigate today's digital world effectively, it is crucial to comprehend the sheer volume of data generated daily—2.5 quintillion bytes, equivalent to 2.5 followed by 18 zeros. Harnessing this data wave toward glorifying God's Kingdom requires the utilization of Al. The potential of ML and Al extends to:

- Accelerating Bible translation efforts to more languages, thus expediting Gospel dissemination.
- Providing hope to those seeking answers on social media platforms.
- Identifying job opportunities in unreached regions through deep analysis of job openings worldwide.
- Serving the needy, poor, and vulnerable by offering better crop advisory services, managing logistics for disaster relief, and creating customized helplines for individuals in distress.

"The world is yet to see what God can do with a fully consecrated individual" aided by Al and ML. It is incumbent upon today's generation to embrace these technologies and serve God and His people in deeper ways.

However, alongside these opportunities, it is imperative to acknowledge the challenges/dangers<sup>1</sup> associated with AI:

- Lack of transparency and explainability in Al decision-making processes.
- Job displacement due to Al automation, with estimates suggesting 300 million full-time jobs could be lost.
- Social manipulation through Al algorithms, as evidenced by addictive social media algorithms highlighted in documentaries like "The Social Dilemma."
- Social surveillance, exemplified by facial recognition technologies used for tracking individuals' movements.
- Privacy concerns stemming from the mass collection of data, compromising individuals' privacy rights.
- Biases inherent in AI systems due to skewed datasets, influencing decision-making processes.
- Financial crises resulting from algorithmic trading and financial terrorism.

As stewards of creation, it is incumbent upon the Children of God to redeem and unify all things under Christ. Christian engineers, technology users, IT experts, and activists can

Al has opened up a world of possibilities for Kingdom citizens, facilitating the fulfilment of the Creation mandate of stewardship and the Great Commission to spread the message of salvation.



<sup>1.</sup> https://builtin.com/artificial-intelligence/risks-of-artificial-intelligence

contribute to creating Responsible Al<sup>2</sup> in the following ways:

### 1. Responsible Development and Release of Generative Al

- Build public awareness of Al capabilities and their limitations
- Encourage alignment and participation through stakeholder consultations
- Uphold Al accountability with rigorous benchmarking to avoid misuse
- Adopt transparent release strategies
- · Enable user feedback
- · Ensure content traceability

# 2. Open Innovation and International Collaboration

- Incentivize public-private research coordination
- Build a common registry of models, tools, benchmarks and best practices
- Support responsible open innovation and knowledge sharing

 Establish a global Al governance initiative

### 3. Social Progress

- Prioritize social progress (where impact on the most vulnerable to be accounted for)
- Drive Al literacy across society
- Incentivize innovation for social good
- Address resource and infrastructure disparities
- Promote generative AI expertise within governments

In conclusion, technology is a Godgiven tool for humanity to glorify and serve one another. Engaging AI in God-glorifying pathways can propel His mandates forward across boundaries. Failure to do so risks allowing malevolent forces to exploit these technologies for destruction. As Mordecai reminded Esther, each individual may have been placed in their position "for such a time as this," to contribute to God's Kingdom using digital aids.



**Dipin V Panicker** is working as a livelihood consultant in Meghalaya. He is married to Rijo Ann Varghese and they are blessed with a son, Luca. Both are part of Tura EGF, Meghalaya. He is currently holding the chair of Task Group on Campus

Challenges, FDD, UESI. He can be reached at dipinpanicker@gmail.com



<sup>2.</sup> https://www3.weforum.org/docs/WEF\_ Presidio\_Recommendations\_on\_Responsible Generative AI 2023.pdf



An ICEU Leader said to the EU Cell Graduate mentor "Sir, I take the help of the ChatGPT for my Quiet Time as well as my Personal Bible Study. I use Wikipedia to learn about a few biblical incidents". The EU Cell Graduate mentor was shocked to hear this new concept from an ICEU Leader. I invite you to pause for a moment and and ask yourself, "Where are we heading as a student movement?"

The use of AI has become inevitable for the present generation. Artificial intelligence is ruling the day and AI Tools are the source of many learners' assignments and projects. Even the servants of God are tempted to use AI to get a few inputs through AI.

In the beginning, God created the heaven and the earth. The earth was without form, and it was void. Deep inside there was darkness. The LORD said, "Let there be light". He never went for anything artificial. Our God is a God of originality, and He made the man original, the garden original and there was no copying or manipulation.

Anything artificial is only manmade. Cloning, Genetically Engineered Microbes (GEM), and Living Modified Organisms (LMO) are the manipulations of God's design. Anthropogenic inventions and products like plastics and polythene were thought to revolutionize human life. Now scientists are struggling to find a solution to remove microplastics from our



drinking water. Microplastics have become an integral part of our human blood crossing the placenta, and are found in embryos, fetuses, and wombs.

The God of the Bible created everything good and beautiful, but humans corrupted themselves and turned those good things into evil. Men invented evil ways and manipulative ways. Human's pursuit to have more and more gives way to substituting Al-integrated machines in place of Original Intelligence (OI).

An Al "Chess Genius" program that has all the possible 10 million chess moves was once accepted undefeatable by the world as it defeated the world champion Kasparov. To prove that AI can never replace OI, the Indian chess grandmaster Viswanathan Anand impossiblechallenged these to-win Al-based parallelly linked supercomputers. He shocked the world by defeating it easily, shattering the laurels and beliefs of elite scientists and pridefully boasting computer companies.

In UESI we practice and profess sola scriptura, a Latin phrase that means "scripture alone" (Bible alone) is the standard of truth for any person living on this earth and Scriptures are our final authority. No one is allowed to add or delete anything from it. The Bible gives a command,

"Do not be deceived" but many times we take it as a suggestion in the Bible (1 Cor. 6:9; Gal. 6:7; James 1:16). "Intelligence with God" is what the Bible calls, foolishness of God which is better than the best intelligence of man. God has chosen the foolish to confront the wise.

that Anything comes from God is unique and there is no manipulation, repetition, copying. A few instances are worth mentioning. God told Joseph to run to keep his chastity and holiness. He never asked Joseph to negotiate. Man's intelligence sees that as an opportunity, but God's intelligence (OI), used it to demonstrate the power of holiness to a heathen powerful woman. Al may present you with another option that suits the taste buds of the carnal minds. Never again was such an incident repeated in the Bible. David was asked to carry stones to defeat a mighty Goliath, who came with the latest weapons of his time. Never again in history, have we seen God instructing someone to use stones to defeat an enemy. Moses was asked to lift the rod towards God, Gideon a pot and lamp, and Ehud a dagger. We don't see any of these repeated because God never takes them from the freezer or refrigerator.

Anything that comes from God is oven-fresh, enriching the soul.



Al may enrich the mind and may weaken the soul. The children of God were asked to get the manna every morning. It was not from any baker; it was from the Maker of heaven and earth. Al can bake a ready-made meal for us, but it cannot substitute 'the manna' that

comes from our Maker. He is the source of OI. And seeking HIS face in the morning makes us shine. The God Who created light can make us a light to many who are dependent on AI and bring them to be dependent on God. So let us follow OI.



**Dr. Anand Prem Rajan,** is a Professor at Vellore Institute of Technology, Vellore, India. He can be reached at ananddonkeyofjesus@gmail.com



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# Themes for Campus Link \*\*



May - June 2024

### Truth and Love: Biblical View on LGBTQIA+

(The deadline to receive the articles is on 10th May 2024)

# July - August 2024 Truth and Freedom

(The deadline to receive the articles is on 20th June 2024)

Word limit - Article = 1400 words max, Poem = 16 lines max

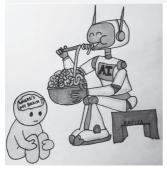
The Articles, Testimonies, short stories, Bible studies, anecdotes, jokes, poems and cartoons are invited to

Upload at <a href="http://campuslinklive.org/submit-for-cl/">http://campuslinklive.org/submit-for-cl/</a>
Email to campus.link@uesi.in

Articles other than these Themes are also welcome!



## A Cartoon on Artificial Intelligence



"Artificial Intelligence is going to rule the world. Whoever can master it, is the one who is going to rule the world," - An international leader.

"The printing press can only print the Bible but AI can write the Bible!!" - An AI developer from Israel

Al can now preach in churches, but God won't be present there. Al can write the Bible, but it

won't make sense. Finally, a day may come when it will be said, AI is the Lord everyone must worship!

The original Bible was written by chosen men inspired by the power of the Holy Spirit. Humans are created wonderfully by God's hands in His image. Though AI can be made to look like a human and can think like a human, AI cannot replace God's masterpiece.



**Mrs. Rajita Norman**, a former Professor of Mathematics at Ambedkar College in Bangalore, is now dedicated to uplifting others in response to a calling from God. She creates cartoons with a central theme of Christian Living, accompanied by a Bible verse. She can be reached at rajitanorman@gmail.com.

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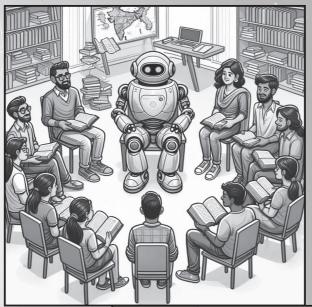
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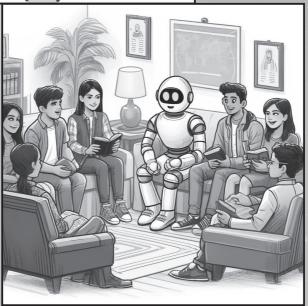
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- Honorary Editor, Campus Link









Al facilitating EU students and EGF members in the Group Bible Studies and updating their skills for student ministry and relationship building . . .

Let us make use of AI as an instrument in equipping us for God's Kingdom purposes.

- AI Generated Cartoons





### **EVOLUTION OR CREATION?**

The question of Evolution versus Creation has been a great problem in the writer's life, and his only incentive to write this book is a desire to give the benefit of his own personal experience to others. When studying natural science and zoology his Christian faith was challenged by the theory of Organic Evolution which was believed and taught by the leading biologists of the day. His first reaction was to accept the theory of evolution as a fact, and to reconcile it with the Biblical teaching by treating the account of creation recorded in the first chapter of Genesis as a story mainly intended to teach a spiritual lesson, rather than as a scientific treatise.



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