

ANTONY BRIJESH

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SUMMARY

Enthusiastic and driven AI and Machine Learning enthusiast with hands-on experience in modern AI frameworks and tools. Background in research focused on software design, with additional expertise in web development. Seeking opportunities to contribute to innovative projects in AI, software engineering, or research environments.

EDUCATION

Bachelor of Science in Electronics Engineering Aug 2023–Present
Kyungpook National University (Daegu, South Korea)
Expected Graduation: **August, 2025**

Bachelor of Technology in Electronics and Computer engineering Jun 2021 - Aug 2023
Specialization : Artificial Intelligence and Machine Learning
CHRIST University (Bangalore, India)

PROJECTS

RAG using Knowledge Graphs (Neo4j)

- Built an AI **RAG** system (**Python, Neo4j, LangChain, Gemini**) that retrieves information from a graph database (Neo4j) for more knowledgeable and context-aware responses, featuring automated graph creation from text, **graph-based searching, and Gemini API integration.**

MCP Server for Document Writing & Summarization

- Built an **Model Context Protocol (MCP)** server to assist with document writing and summarization, offering features for note creation and management. Using : **MCP python SDK, Text summarization with Claude AI, Claude Desktop**

Personal Portfolio Website

- A modern, responsive portfolio website built with **Next.js and TailwindCSS**. Features a clean design, smooth animations with **GSAP**, and interactive elements.

RESEARCH EXPERIENCE

- Software Safety Engineering Lab, Kyungpook National University (Daegu, South Korea).
- Research Intern | Sep 2024 – Present
- Conducted research on **Automating generation of Requirements specifications, NLP, Model Checkers (z3).**
- Publication** : "A Study on Translating Logical Specifications to Natural Language using Large Language Models." **Accepted for publication at the ASK 2025 Conference (한국정보처리학회).**

ADDITIONAL INFORMATION

- Technical Skills**: Python, C, HTML, CSS, and TypeScript.
- AI Frameworks & Tools**: TensorFlow, PyTorch, Ollama, Langchain, Hugging Face Transformers, Neo4j, MCP, and Generative AI.
- Other Tools**: Git/GitHub, Docker, Google Colab, NextJS, ThreeJS, Gradio, Vite, and Vercel.
- Certifications** : Machine Learning Specialization, DeepLearning.AI & Stanford University.
Power BI Data Analyst, Microsoft.
Building Multimodal Search and RAG, DeepLearning.AI.
- Languages**: English (full proficiency), Korean (intermediate), Tamil.