



Passionate about programming GenAI, Data Analytics, AI, ML, Web Development and Python.  
I enjoy applying my knowledge to solve real life problems.

EDUCATION

Bengaluru	PES University	Dec 2021 – Present
B-Tech in Computer Science Engineering. CGPA: 9.01		

WORK EXPERIENCE

Intern	Intel	Jun 2024 – Aug 2024
<ul style="list-style-type: none"><li><b>Performance Optimization:</b> Improved Gaudi GPU card performance, <b>increasing throughput by 20%</b> and <b>reducing latency by 1s</b> through concurrency and TGI parameter analysis.</li><li><b>Government Circular Analysis:</b> Implemented <b>OCR</b> and <b>NER</b> for parsing Government Circulars by annotating government circulars and stored data, embeddings in <b>GraphDB</b>, <b>VectorDB</b> respectively.</li><li><b>Full Stack Development:</b> Developed a <b>full stack</b> solution with a <b>MySQL</b> database, <b>FastAPI backend</b> and frontend interface using <b>ReactJS</b> for managing student, project, mentor, and organization data.</li></ul>		
Artificial Intelligence Intern	Infosys	Sep 2023 – Nov 2023
<ul style="list-style-type: none"><li><b>Automated Documentation Tool:</b> Created a Java method description generator using <b>Python</b>, leveraging <b>Google T5</b> and <b>BERT</b> for code analysis.</li><li><b>NLP and Code Analysis:</b> Utilized <b>ANTLR4</b>, <b>javalang</b> and <b>NLTK</b> for Java code tokenization, producing precise method descriptions in structured Word documents.</li></ul>		
Summer Intern	Indian Institute of Science	Jun 2023 – Sep 2023
<ul style="list-style-type: none"><li><b>Comparative Insertion/Deletion Analysis for various data structures:</b> BST, AVL, SkipList were analyzed over languages like Python, C, Java. Contributed to a Machine Learning and Data Science project.</li><li><b>EDM Conference:</b> Volunteered at the Education Data Mining Conference and served as an Ambassador, demonstrating commitment to the field.</li></ul>		

TECHNICAL EXPERIENCE

PROJECTS

- Multimodal Advertisement Generator(05/2024 - Present):** Curated a video repository and created datasets to **fine-tune BART** models for caption and tagline generation. Developed a video selection mechanism using **TF-IDF**, emotion analysis with **RoBERTa**, text embedding similarity with **all-MiniLM**. Built a website using React, Django.
- CuisineCompass (09/2024):** Developed a full-stack restaurant discovery web app using **FastAPI**, **React**, and **Axios** with **MongoDB**, featuring image-based food search using **SWIN model**, advanced filters, and location-based recommendations. Showcased expertise in **API development**, **database integration**, and **responsive UI** design with Tailwind CSS.
- RAG Pipeline - Retrieval Augmented Generation (07/24):** Built an end-to-end **RAG pipeline** using **langchain** libraries for PDF-based question answering **FAISS for vector similarity search**, and **SentenceBERT** models for embeddings and answer generation. Enabled efficient query-based retrieval and response generation through content extraction and chunking techniques.
- Conversational AI (05/2023):** Developed a career advisory web-app using **HTML**, **CSS**, **JavaScript**, **jQuery** and **OpenAI API**, providing personalized career and education suggestions with prompt engineering.

MAJOR CERTIFICATIONS

- Google Data Analytics Professional Certificate (Coursera): **BigQuery,R,Python,Tableau,MS Excel**

ACHIEVEMENTS AND AWARDS

- MRD Scholarship(x6):** Prestigious award for the top 25% of students for exceptional semester GPA performance.
- Lake Conference Paper Presentation:** Placed 2nd in the paper presentation round.

LANGUAGES AND SKILLS

**Languages:** Python, PySpark, R, Java, JavaScript, HTML.  
**Technologies & Frameworks:** FastAPI, Streamlit, Prisma, Spring Boot, ReactJS, Tailwind CSS.  
**Databases:** MySQL, MongoDB.  
**Tools & Platforms:** Docker, Visual Studio, Jupyter/Google Colab, GitHub, Canva.  
**Domains:** NLP, AI, ML, Data Analytics.  
**Soft Skills:** Teamwork, communication, problem-solving, adaptability, attention to detail.