Kausik D

Chennai, IN ✉ kausikdevanathan@gmail.com 📞 +91-63695-575179 🔗 www.kausik.codes

in kausik-devanathan ⏻ Kaus1kC0des

Education

St. Joseph's College of Engineering *Nov 2022 – May 2026*
B.Tech in Artificial Intelligence and Machine Learning

- GPA: 8.06/10.0
- **Coursework:** Foundational Mathematics, Machine Learning Algorithms, Neural Networks, Deep Learning

Experience

Software Engineer Intern *Chennai, IN*
Qik Meetings *Aug 2024 – Present*

- **Built an end to end Speaker Diarization pipeline** enabling speaker tagging in in-person meeting.
- **Developed and maintained GPU-intensive cloud infrastructure** to support the existing features, ensuring low latency and high concurrency.
- Built a **RAG system**, which enables users to query information on previous meetings, action items, and minutes, providing **Actionable Business Intelligence**. Engineered an **optimized backend** enabling **low latency** and **smooth user experience.**
- Designed and built a **semantic query engine**, which allows users to query and retrieve data based on both keywords and natural language.

Projects

Project Nethran *GitHub Link* ↗

- Developed AI-powered assistive eyeglasses with **YOLO-World** for object detection and CNN (91% accuracy) for sign language recognition to support visually and hearing impaired
- Tools Used: Python, PyTorch, Google Cloud Platform, Flask, Rapberry Pi 0

YouTube Comment Sentiment Analysis Platform *GitHub Link* ↗

- Built a deep learning-powered web application for analysing viewers comments on a YouTube video achieving a 98% accuracy using fine-tuning on BERT.
- Tools Used: Python, PyTorch, Flask, Git, Docker, Heroku, GitHub Actions

RAG Knowledge Base *GitHub Link* ↗

- Built a RAG system that acts as a knowledge base for educational insitutions and empowers students to gain in-depth knowledge about their curriculum.
- Leveraged **SoTA** models like **Gemini**, and used **MinerU algorithm** to extract and structure data from different sources.
- Built a robust and **scalable web application** that allows students to query upon and learn from their study materials effectively.
- Tools Used: Next.js, FastAPI, PyTorch, Git, PostgreSQL, MongoDB, Redis, Google Cloud Platform

Technical Skills

Languages: Python, Java, SQL,

Databases: MySQL, PostgreSQL, MongoDB

Machine Learning: Scikit-Learn, PyTorch, Supervised Algorithms, Neural Networks, Computer Vision, NLP,, Text Classification, Entity Recognition, Prompt Engineering, RAG Systems

Cloud Platforms: AWS, Heroku, GCP

Other Tools: Git, GitHub Actions, Docker, VMWare, W&B, GitLab