Kausik D

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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*

- **Developed an end-to-end speaker diarization pipeline**, enabling accurate speaker tagging during in-person meetings.
- **Engineered and optimized GPU-intensive cloud infrastructure** to support existing services, maintaining low latency and high concurrency under heavy workloads.
- **Built a Retrieval-Augmented Generation (RAG) system** that enables users to query previous meetings, action items, and minutes—delivering actionable business insights through an optimized backend.
- **Designed a semantic query engine** that allows users to retrieve information using both keyword and natural language-based search, improving overall user accessibility and data discoverability.

Projects

Project Nethran *GitHub Link*

- Developed AI-powered assistive eyeglasses using **YOLO-World** for object detection and CNN (91% accuracy) for sign language recognition to assist visually and hearing-impaired individuals.
- Tools Used: Python, PyTorch, Google Cloud Platform, Flask, Raspberry Pi Zero

YouTube Comment Sentiment Analysis Platform *GitHub Link*

- Built a deep learning-powered web application to analyze viewer comments on YouTube videos, achieving 98% accuracy using fine-tuned BERT.
- Tools Used: Python, PyTorch, Flask, Git, Docker, Heroku, GitHub Actions

RAG Knowledge Base *GitHub Link*

- Built a RAG system that serves as a knowledge base for educational institutions, enabling students to query and learn from their curriculum efficiently.
- Leveraged **state-of-the-art models** like **Gemini** and employed the **MinerU algorithm** to extract and structure data from varied sources.
- Built a scalable and robust web application integrating **Next.js**, **FastAPI**, and **PyTorch**, with PostgreSQL, MongoDB, and Redis for efficient data handling.
- 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, Weights & Biases, GitLab