Aakif Mir

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Education

CBIT Hyderabad, BE in Computer Science — Nov 2022 – Jul 2026
- GPA: 8.80/10

Jawahar Navodaya Vidyalaya Anantnag, 10+2 — Mar 2014 – Apr 2021
- **12th:** GPA: 9.6/10
- **10th:** GPA: 10/10

Work Experience

Software Developer Intern at Tenth Plus — Mar 2025 – June 2025
- Developed a *Spaced Revision App* that uses FastAPI and MySQL to manage AI-generated NCERT-style questions and student revision tracking.
- Integrated Gemini AI to extract concepts and generate questions from chapter PDFs, storing them by concept and difficulty.
- Built a React frontend to display questions, record answers, and schedule personalized reviews based on spaced repetition logic.

Projects

News Aggregator with Personalized Recommendations and Summaries 🌐 Live 　 GitHub
- Built a full-stack news aggregator using React, Node.js/Express, PostgreSQL, and Python NLP to deliver personalized, summarized, and recommended content.
- Implemented JWT-based authentication with secure signup/login flows, automatic preference persistence in both database and localStorage, and seamless retrieval of user preferences on login.
- Integrated real-time web scraping, intelligent summarization (Transformers), and recommendation system (Scikit-learn) to enhance personalization.
- Designed a responsive, preference-driven UI, improving user engagement and reducing average read time by 60% through AI-generated summaries.

Distributed-Event-Driven-Video-Processing-Pipeline 　 GitHub
- Built a distributed video processing pipeline using FastAPI and React (Vite), supporting real-time video upload, enhancement, and metadata extraction.
- Integrated RabbitMQ for task queuing and WebSockets for instant status updates, reducing processing response time by 40%.
- Implemented an intuitive UI with smooth upload and download experience, achieving user satisfaction in testing.

Olympics Data Analysis and Visualization 🌐 Live 　 GitHub
- Developed an interactive web application using Streamlit to analyze Olympic Games data.
- Features include medal tally insights, country and athlete-wise performance analysis, and trend visualizations using Pandas, Seaborn, and Plotly.
- Implemented data pre-processing for accurate insights and presented results through interactive charts and heatmaps.

Movie Recommender System 🌐 Live 　 GitHub
- Developed a content-based movie recommender system using Python, Streamlit, and TMDb API.
- Implemented similarity-based recommendations using precomputed similarity matrices..
- Deployed the application on streamlit for seamless accessibility and real-time recommendations.

Technologies

Languages: Python, C, C++, JavaScript, Kotlin, SQL

Tech Stack: FULL Stack, MERN Stack, Machine Learning

Database: MongoDB, MySQL, PostgreSQL

Tools: Git, Github, RabbitMQ, Docker

Libraries/Frameworks: Scikit-Learn, Matplotlib, Pandas, Numpy, Bootstrap, NodeJS, ExpressJS, ReactJS, Tailwind, Flask, FastAPI