

Asfand Ahmed

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EDUCATION

FAST-NUCES

Aug. 2023 – Present

B.S. Computer Science

EXPERIENCE

Backend Developer Intern

Jan 2026 – present

Apexes AI

Remote

- Built REST APIs for AI-powered meeting recap and transcription systems using Python, FastAPI, and PostgreSQL.
- Implemented NLP-based sentiment analysis pipelines for structured insights extraction.
- Designed secure authentication mechanisms and optimized database schema for performance and scalability.

Machine Learning Intern

Aug. 2025 – Sep. 2025

Elevvo

Remote

- Completed a 4-week project-based internship focused on foundational machine learning applications.
- Developed regression models for student score prediction and implemented collaborative filtering techniques for a movie recommendation system using Python.
- Gained hands-on exposure to machine learning by implementing basic predictive and classification projects.

PROJECTS

Meeting Recap System | *Python, FastAPI, React, PostgreSQL, NLP*

- Built backend services for AI-based meeting documentation automation using FastAPI and PostgreSQL.
- Integrated speech-to-text processing and basic sentiment analysis workflows for structured meeting summaries.
- Automated meeting documentation using AI pipelines with speech transcription and sentiment scoring.

Game Recommendation Engine | *Python, Pandas, Scikit-learn, TF-IDF, Cosine Similarity*

- Developed a hybrid recommendation system combining content-based filtering techniques.
- Optimized cosine similarity search to generate personalized game suggestions.

DevOrbit — Developer Networking Platform | *MERN Stack*

- Built a LinkedIn-style developer networking platform with JWT-based authentication.
- Designed scalable MongoDB schema and deployed the production frontend.
- Professional networking platform for developers with authentication and scalable data management.

LMS Platform | *MERN, MySQL*

- Developed a multi-role learning management system with admin, instructor, and student dashboards.
- Implemented role-based access control and designed a normalized relational database schema.
- Multi-user learning management system with role-based dashboards and database-driven access control.

AI Chatbot — Google Firebase Hackathon | *React, Firebase, Real-Time APIs*

- Built a real-time AI chatbot interface using React and Firebase.
- Integrated real-time APIs to handle dynamic conversation flows.

TECHNICAL SKILLS

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

Frontend: React.js, Next.js, Redux, Tailwind CSS, Bootstrap

Backend: FastAPI, Node.js, Express.js, Django, Django REST Framework (DRF), REST APIs, JWT

AI/ML: Scikit-learn, Pandas, NumPy, TF-IDF, Cosine Similarity, NLP

Databases: PostgreSQL, MySQL, MongoDB, Firebase, Supabase

Tools: Git, Linux, Postman, Vercel, Railway

AWARDS & ACHIEVEMENTS

Hackathon Runner-Up: Coders Cup — FAST-NUCES

Competitive Programming: Top 25 — Coders Cup 2025

Certifications: Kaggle (Python, Machine Learning), Coursera (Ethical Hacking, MERN Stack, Microsoft Azure)

LEADERSHIP & ACTIVITIES

Co-Head — AI Competitions | PROCOM

Oct. 2025 – Dec. 2025

- Managed 7 technical modules with 70+ organizing team members.
- Coordinated 1,000+ participants across multiple AI competition tracks.

Head — Tech Heist Competition

Mar. 2024 – May 2024

- Designed cryptography and discrete mathematics based technical challenges.
- Led the organizing team and executed the event for 100+ participants.