Ibrahim Hussain

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Education

FAST UNIVERSITY   Islamabad, Pakistan
Bachelor of Science in Data Science   *September 2023 – Present*
Relevant Coursework: Data Analysis and NLP, Data Structures, Databases, Introduction to Data Science, Software Engineering, Advanced Statistics, Linear Algebra.

THE SCIENCE SCHOOL   Islamabad, Pakistan
General Certificate of Education – Advanced Level (GCE A-Level)   *June 2023*
Subjects: Mathematics, Physics, Computer Science

Experience

SMARTFORUM
AI Engineer Intern   *June 2025 – Present*
- Applied NLP concepts and used Pinecone to optimize LLM performance, improving response accuracy and reducing retrieval latency for faster, more efficient AI-driven applications.
- Developed modular AI agents using LangChain and Hugging Face, streamlining workflow automation, and integrated ASR with multi-model orchestration to enhance real-time interaction capabilities, and boosting user engagement.

Projects & Technical Experience

GENRE DETECTION MODEL
ML Developer   *May 2025 - Present*
- Developed a multi-label NLP pipeline to classify movie plot summaries into multiple genres using transformer-based embeddings and multi-class classifier architecture.
- Engineered robust text preprocessing, feature extraction and model evaluation using metrics like F1-score and multi-label accuracy.

CINEMAGO WEB APP
Frontend & Backend Developer   *February 2025 – Present*
- Designed and deployed a movie discovery website using HTML, CSS, JavaScript, Flask.
- Implemented search, user login, and recommendation algorithm.
  https://cinemago-2u2f.onrender.com

NETWORK EMULATOR IN C++
Lead Programmer   *May 2025*
- Engineered a simulation tool to model computer network behaviour, including packet flow and latency.
- Devised socket-like logic and modular architecture to emulate multiple nodes.

Technical Skills

Programming Languages: Python, C++, LaTeX.
AI: NLP, Hugging Face Transformers, LangChain, Agentic AI.
Databases: PostgreSQL, SQLite, Vector Databases (Pinecone).
Operating Systems: Windows, and Linux.
Version Control & Hosting: Git, GitHub – **github.com/ib-hussain**

Interests

Language: English (Fluent), Urdu (Native), Italian (Basic).
Interests: Analytics Enthusiast, Tech Leadership, Team Collaboration, Digital Marketing, Graphic Design, Video Editing, Web Development, UI/UX Design, Game Development.