

Ayaan Ahmed

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 Kolkata, India

SUMMARY

Machine Learning Student specializing in AI Applications and Scalable Tech: proficient in Java, Python, TensorFlow, scikit-learn, Python and ML frameworks. Skilled in deep learning, GenAI and data analytics, with a track record of impactful projects. Excited to apply expertise to dynamic AI roles.

EXPERIENCE

Summer Intern, IEEE Kharagpur CS SBC-IIT Kharagpur

June 2024 – Present

ML & CV Solutions

India

- Developed machine learning, deep learning, and computer vision models using TensorFlow, Keras, and YOLO for real-time usage.
- Fine-tuned large language models (LLMs) and large vision models (LVMs) for specific tasks using Keras, JAX & LangChain.
- Built interactive applications with Streamlit and visualized data insights.
- Designed and deployed chatbots and real-time models with Gemma and GPT frameworks for research and development.

Summer Intern, Celebal Technologies

May 2024 – July 2024

Data Engineering Department

India

- Installed and configured Microsoft SQL Server and MySQL, mastered DDL, DML, TCL commands, stored procedures, and dynamic SQL.
- Developed data processing and real-time streaming solutions with Apache Spark and Kafka.
- Set up Azure Data Factory (ADF), implemented ETL processes, and created parameterized pipelines.
- Worked on reading the MNIST dataset from ADLS Gen2 using PySpark.

PROJECTS

Pramā | Python, Flask, ReactJS, Langchain, Gemma APIs, Vector DB(FAISS), Multi-Source RAG

June 2024 - present

- Developed an AI-powered LMS leveraging adaptive learning algorithms and AI summarization with state of the art GenAI and NLP integration.
- Engaged in Hack4Bengal 3.0 2024 Hackathon, earned Honorable Mention.

SignaVerse | Python, Deep Learning, DenseNet, OpenCV, Data Modelling

November 2023 - February 2024

- Developed ISL translator using OpenCV & MediaPipe Holistic for gesture recognition.
- Implemented a sequence-to-sequence model for accurate ISL to text conversion.

DilCare | ML Algorithm, Predictive Modelling, EDA, FastAPI, PostgreSQL, Airflow, Grafana

March 2024 – Present

- Designed and deployed a stroke prediction model using RandomForest and integrated with Streamlit.
- Used FastAPI for backend management and PostgreSQL SQLAlchemy for real-time data management.

EDUCATION

Techno Main Salt Lake, Kolkata

2021 – 2025

B.Tech in Computer Science and Engineering (AIML)

CGPA: 8.65 — ISC(12th): 93%

TECHNICAL SKILLS

- Languages:** Java, Python, SQL
- Frameworks & Libraries:** TensorFlow, Keras, PyTorch, Scikit-Learn, OpenCV, NumPy, Pandas, Matplotlib, Seaborn, Plotly
- Tools & Platforms:** Git, GitHub, Docker, Apache Spark, Apache Kafka, Azure Data Factory, Streamlit
- ML & AI:** LangChain, FastAPI, Flask, YOLO, MediaPipe, LLMs, LVMs, Transformers, GAN, RAG
- Other:** Django, MySQL, PostgreSQL, ETL Processes, CI/CD, LLM Ops, AWS, ADF

CERTIFICATIONS

- Machine Learning
- Complete GenAI
- Cloud IBM
- Full Stack Python

LANGUAGES & ACTIVITIES

- Languages: English (fluent), Hindi (native), Bengali (fluent), German (basic)
- Activities: Hack4Bengal 3.0, Tata Imagination Challenge, EY Tecathon 4.0, CTS Eastzone Hackathon
- Hackerrank: 5-star Python, 3-star SQL
- LeetCode: Profile