

Anik Chand

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Summary

Aspiring Machine Learning Engineer with proven experience in designing, training, and deploying **AI/ML models** using **TensorFlow**, **Scikit-learn**, and **FastAPI**. Proficient in **data preprocessing**, **statistical analysis**, **data analysis**, **data science**, and **end-to-end model deployment**. Hands-on expertise in **full-stack application development** and **API integration**. Recognized for **mentorship**, **problem-solving**, and success in **coding competitions**, with a strong passion for building scalable AI solutions.

Experience

Contributor – NumPy

Oct 2025 | Remote

- Finalized `linalg/fft` deprecations (PR [#29909](#)) to enhance type safety for ML workflows.
- Improved numerical stability for scientific computing and generative models (e.g., GANs) via clean SVD/FFT implementations.

Machine Learning Trainee – ISTE HIT Student Chapter

Mar–Sep 2025 | Haldia

- Executed ML pipelines for student projects, boosting model accuracy and applying skills to real-world cases.
- Mentored at BitsNBytes 2025 (ISTE), guiding participants through technical challenges and advanced DSA problem-solving.

Contributor (Hacktoberfest) – LocalStack

Oct 2025 | Remote

- Normalized documentation structure for “Reproducible ML with Cloud Pods” tutorial by adding Introduction and Testing sections (PR [#268](#)).
- Enhanced developer onboarding by improving clarity and consistency in AWS emulation guides, reviewed and merged by core maintainers.

Education

Haldia Institute of Technology

2024–Present

B.Tech in Computer Science and Engineering, Expected Graduation: 2028 , CGPA : 8.59

Birbhum Zilla School

2020–2022

Higher Secondary (Class 12), Grade: O (92.2%)

Projects

Fake Handwritten Digits Generation (GAN – MNIST)

[GitHub](#)

- Designed and implemented a **Generative Adversarial Network (GAN)** using **TensorFlow/Keras**, optimizing custom **Generator & Discriminator** models with `tf.GradientTape`.
- Built a **training visualization pipeline** to generate GIFs for monitoring loss convergence and model performance.
- Successfully generated realistic **synthetic handwritten digits**, demonstrating the potential of GANs in data augmentation.
- Tools:** TensorFlow, Keras, NumPy, Matplotlib, Python Notebook

AkBOT – AI Portfolio Chatbot

[Live](#)

- Developed a **RAG-based chatbot** using **FastAPI**, **FAISS**, **LangChain**, and **Gemini API**, enabling intelligent **LLM-driven, context-aware portfolio Q&A**.
- Deployed a **responsive web app** on Render, improving recruiter engagement with dynamic project queries.
- Tools:** FastAPI, LangChain, ChromaDB, Gemini API, HTML, CSS, JavaScript, Render

Customer Sentiment Segmentation

[Live](#)

- Built an **ensemble ML classifier** with **TF-IDF** and **SciPy sparse matrices**, achieving **89.15% accuracy** on large-scale reviews.
- Segmented customer feedback into **positive/negative/neutral** classes, enabling data-driven business insights.
- Tools:** Python, scikit-learn, NumPy, SciPy

Video-RAG-Search – YouTube Video RAG Platform

[GitHub](#)

- Developed a **Flask-based web application** for **YouTube audio transcription** using **Whisper**, **keyword extraction** with **Groq LLM**, and **semantic embeddings** via **SentenceTransformers** stored in **MariaDB**.
- Implemented **semantic similarity search** for transcript snippets with **ranking**, interactive UI, and caching via **Flask-Caching**.
- Tools:** Flask, MariaDB, Whisper, SentenceTransformers, yt-dlp, Groq API

Skills

Languages: Python, Java, C++, SQL, JavaScript | **Libraries & Tools:** NumPy, Pandas, Matplotlib, Seaborn, Scipy, Scikit-learn, XGBoost, TensorFlow, Keras, PyTorch, OpenCV, Transformers, MLflow, Docker | **AI/ML & Cloud Platforms:** Hugging Face, LangChain, FastAPI, Streamlit, Gradio | **Databases:** MySQL, SQLite | **Soft Skills:** Teamwork, Leadership, Adaptability

Certifications

Intro to Machine Learning

Kaggle | Jun 2025 | [Credential](#)

Skills: Random Forest, Model Validation, Machine Learning

Data Analysis

American Express (via Unstop) | Sep 2025 | [Credential](#)

Skills: Data Analysis, Business Analytics, Python