

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