Udita Chakraborty

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EDUCATION

Vellore Institute of Technology, Bhopal — Bhopal, India
B.Tech – CSE (with AIML specialization). GPA: 8.09 — **Sept 2023 – Present**

Shri Ram Global School, Whitefield — Bangalore, India
CBSE; Percentage: 83% — **June 2021 - May 2023**

Vagdevi Vilas School, Varthur — Bangalore, India
CBSE; Percentage: 93.6% — **June 2020 - May 2021**

SKILLS SUMMARY

- **Languages**: Python, C++, **Basics of**: HTML, CSS, JavaScript, JAVA
- **Tools**: Git/GitHub, Docker, VS Code, AWS Cloud
- **Libraries**: Pandas, Numpy, Matplotlib, Scikit-learn, Streamlit, LangChain, LangGraph
- **Frameworks** TensorFlow, Keras, PyTorch, Django, Flask
- **Technologies**: Machine Learning, Prompt Engineering, Cloud Computing, LLMs, AI Agents, DevOps

PROJECTS

DevOps Deployment System | *Docker, Kubernetes, Helm* — **Nov 2025 - Dec 2025**

- Designed a red-blue containerized web application using Helm charts to manage versioned Kubernetes deployments and for easy version switching.
- Built Docker images manually and deployed applications on a local Kubernetes cluster, simulating real-world DevOps workflows used in production systems.
- Configured Kubernetes services to expose and manage multiple application versions, illustrating traffic routing and deployment stability concepts.

Movie Recommendation System | *Python, Pandas, Streamlit, Django, Scikit-learn* — **Nov 2025 - Dec 2025**

- Built a content-based movie recommendation engine on a dataset of top 2000+ movies, generating personalized suggestions based on cosine similarity.
- Developed an end-to-end ML application with Django and Streamlit, enabling real-time user interaction and dynamic recommendations.
- Refined the dataset and engineered key features, to deliver accurate suggestions and improve recommendation relevance using Pandas and Scikit-learn.

RealityCheck.AI | *LLM, Streamlit, GPT-4, Fact-Checking Algorithms* — **Apr 2025 - May 2025**

- Designed an AI tool for a Kaggle Competition to detect and highlight hallucinations in LLM-generated outputs by verifying claims against factual references, improving trustworthiness of AI responses.
- Integrated GPT-4 APIs with custom fact-checking logic to generate confidence scores and highlight potentially inaccurate statements.
- Built an interactive Streamlit interface to visualize verification results, making AI reliability assessment accessible to end users.

Fake Product Detection System | *Python, TensorFlow, Flask* — **Dec 2024 - Jan 2025**

- Developed an image-based counterfeit detection system using machine learning models to classify products as authentic or fake.
- Trained and evaluated models in TensorFlow, getting an accuracy of 86% in real-world consumer scenarios.
- Integrated a Flask-based web interface to support real-time image uploads and text-based predictions.

CERTIFICATES

NPTEL Cloud Computing | *IIT Kharagpur* — **April 2025**
Kaggle GenAI Intensive Badge | *Kaggle* — **April 2025**
NLP in Practice | *Infosys Springboard* — **April 2025**
Design Thinking | *Infosys Springboard* — **April 2025**
Fundamentals of AI and ML | *VITyarthi* — **May 2024**
Python Essentials | *VITyarthi* — **Dec 2023**