

Education

Heritage Institute of Technology

Sept 2022 – June 2026

B.Tech in Computer Science and Engineering (Data Science)

- GPA: 8.83/10.0 (Scored 10.0 in 3rd Sem) ([Marksheets](#) [↗](#))

- **Coursework:** Probability and Statistics • Machine Learning(ML) • Deep Learning(DL) • Data Structure and Algorithms(DSA), Design and Analysis of Algorithms(DAA) • Database Management Systems(DBMS) • Data Warehousing • Cloud Computing • Operations Research(OR) • Computer Organization and Architecture(COA) • Operating Systems(OS)

Certifications: IBM Data Science Professional Certificate; Stanford ML & Deep Learning Specializations

Experience

Student Apprenticeship, Omdena-AI Innovation IPAGE

Remote

Omdena

Nov 2024 – Feb 2025

- Selected as one of only **50** candidates for this apprenticeship. The client was the IPAGE team from Bangladesh, tasked with using AI/ML to **predict soil contents** to improve agricultural productivity without physical testing.
- Served as Team Lead of the Data Collection team. Led efforts to gather data on various soil types and curated open-source soil datasets from NASA and other research institutes.
- Contributed to model development. Build a robust Random Forest Regressor model to predict Boron and Organic Carbon in soil, and deployed it using Streamlit.

Student Apprenticeship, Omdena-Milan Chapter

Remote

Omdena

May 2024 – July 2024

- Presented findings at research meetings.
- Participated among **347 members**. Actively involved in data collection, preprocessing, and exploratory data analysis (EDA). Ranked among the top **10 active** participants.
- Developed and deployed supervised machine learning models; optimized and regularized model performance.

Achievements

- **Starknet Grant Recipient (Project: StarkFinder)** – Selected as **1 of 20 teams** globally (i2% acceptance) for **Argent Telegram Accelerator**; received **\$25K grant**, mentored by **Argent** and **Starknet Foundation**.
- **EthIndia 2024 – Starknet Track Winner** – Won at India's largest Ethereum hackathon among 2000+ developers; recognized by Starknet for technical innovation.
- **BrianAI Winter Hackathon Winner** – 2nd place in an international AI hackathon (100+ teams); integrated BrainAI endpoints to build autonomous AI agents for seamless transactions from a single prompt.
- **Masai School Data Science Program (IIT Guwahati)** – Selected from 3000+ applicants for top-tier industry-led program in Data Science.
- **GATE 2024 – DA Rank 3457** – Secured **Top 2.2%** (Rank: 3457/170,000+) in first attempt while in 3rd year of B.Tech.

Projects

- **StarkFinder** — AI-powered Starknet navigator built for **BrainAI Hackathon** and received **seed grant** for it. Features a multi-agent architecture (Trade, Investment, Research), Cairo contracts, conversational task delegation, and integration with DeFi protocols. Tech: Next.js, TypeScript, PostgreSQL, Prisma, Cairo. [\[GitHub\]](#) [↗](#)
- **Bot Battles** — Gamified AI prediction market with decentralized betting, LLM-powered agents, and PvP mechanics. Users deploy AI agents (risk styles), influence live crypto predictions via “debates,” and interact with smart contracts for real-time rewards. Tech: TypeScript, Ollama, Starknet, Telegram APIs. [\[GitHub\]](#) [↗](#)
- **IPAGE (Omdena)** — Built ML pipeline to predict SOC, boron, and zinc for smarter fertilizer use. Selected Ridge Regression for optimal performance and generalizability. Enabled sustainable, cost-effective agriculture for Indian smallholder farms. Tech: Scikit-learn, Pandas, Regression models. [\[GitHub\]](#) [↗](#)
- **Urban Agriculture Milan** — Contributed to geospatial predictive models to map ideal zones for city farming using open-source datasets. [\[GitHub\]](#) [↗](#)
- **DecentralDocs** — IPFS-based documentation platform with wallet-authored edits for censorship resistance. [\[GitHub\]](#) [↗](#)
- **Open Source Contributor** — Fixed DB migrations, configured Hasura, and authored tests for Python-based repos.

Skills

Languages: Python, R, C++, C, Java, SQL, JavaScript, TypeScript

Libraries: Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, Pytorch, BeautifulSoup, OpenCV, Keras, Huggingface transformers, Langchain

Data Visualization: Power BI, Dash

Deployment: Streamlit, Vercel

Miscellaneous: Excel, PowerPoint