

KAUSTUBH UPADHYA

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EDUCATIONS

Indian Institute of Information Technology, Sri City | Sri City

Jun 2024 - Present

B.Tech – Artificial Intelligence and Data Science

CGPA : 8.95 / 10

- Relevant Coursework: Machine Learning, Data Structures & Algorithms, AI & Knowledge Representation, Data Science, Core Java, SQL, Database Management Systems

WORK EXPERIENCES

Campus Partner | Freelance

Aug 2025 - Nov 2025

Perplexity AI

Remote • Remote

- Onboarded 70–100+** new users through campus workshops, outreach events, and student demos.
- Built an engaged student community** around Perplexity's AI tools; showcased Comet (agentic AI browser) for academic research workflows.

Technologies / Skills Used : *Community Management, User Onboarding & Support, User Acquisition*

SKILLS

Databases : MySQL

Frameworks Libraries : Scikit-Learn, XGBoost, LightGBM, PyTorch, spaCy, Sentence-Transformers, Hugging Face

Languages : English, Hindi, Kannada, Tamil

Programming Languages : Python, Java, C/C++, SQL, C

Soft Skills : Teamwork, Communication, Adaptability, Problem Solving, Critical Thinking, Time Management, Collaboration

Tools Platforms : FastAPI, Docker, Vercel, Hugging Face Spaces, Jupyter, Linux/WSL, Git, GitHub, GitHub Actions

PROJECTS

AlterScore — Alternative Credit Scoring Platform | GitHub Vercel

May 2026 - Present

Individual Project

- Developed a full-stack **psychometric credit-scoring system** for unbanked borrowers, converting behavioral and cognitive signals into a standard **300-850 credit score** using a **Monotonic XGBoost model (AUC-ROC: 0.8090)**.
- Engineered a 39-feature extraction pipeline utilizing real-time telemetry and a custom **NLP engine (spaCy, Sentence-Transformers)** to analyze open-text resilience essays, achieving **zero external API costs**.
- Implemented production-grade **ML governance**, including monotonic constraints, PSI drift tracking, counterfactual stability checks, and fairness audits (demographic parity, equalized odds).
- Integrated Explainable AI with real-time **SHAP attribution** waterfall plots and personalized counterfactual recommendations (DiCE-ML); deployed a containerized backend on Hugging Face Spaces.

Technologies / Tools Used : *Python, FastAPI, XGBoost, PyTorch, spaCy, React, Docker*

Pathfinder — Network Vulnerability & Attack Path Finder | GitHub Vercel

Mar 2026 - May 2026

Individual Project

- Engineered a **cybersecurity AI agent** to model enterprise networks as directed weighted graphs, calculating optimal multi-stage attacker intrusion paths through a custom **A* search algorithm**.
- Created a hop-based admissible heuristic $h(n)$ that reduced state-space exploration by up to **60%** compared to Uniform Cost Search, maintaining API latency under **15 ms**.
- Developed an **automated Patch Simulator** to rank mitigation strategies based on their impact.

Technologies / Tools Used : *Python, FastAPI, NetworkX, A* Search, React, Docker*

AWARDS & ACHIEVEMENTS

- 1st Place – Innoventures Hackathon, IIIT Sri City:** Achieved top rank among 15+ teams.
- National Finalist – VizQuest 4.0, IIM Nagpur:** Recognized as the leading national team in the Analytics Case Visualization Competition.
- Site Winner – Global Game Jam, IIIT Sri City:** Secured 1st place out of 80+ participants.

CERTIFICATIONS

Supervised Machine Learning: Regression and Classification — DeepLearning.AI (Credential ID: SFLWT1L56FT1)

Google Cloud & Generative AI Pathways (19 Certifications) — Google Cloud Skills Boost

- Highlights:** **Level 3: Generative AI** (19112424), **Develop Gen AI Apps** with Gemini and Streamlit (19001464), **Prompt Design** in Vertex AI (18989664), **Optimize and Govern Data** with Dataplex (18967614), **Set Up a Google Cloud Network** (18975043).