Ishita Ghosh

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EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY
BTECH IN ELECTRONICS AND COMPUTER ENGINEERING (ECM) CGPA - 8.50
09/2021 – 09/2025
Chennai

NEW HORIZON PUBLIC SCHOOL
HSC 12TH GRADE - PERCENTAGE : 84%
05/2019 – 06/2021
Mumbai

DAV PUBLIC SCHOOL
SSC 10TH GRADE - PERCENTAGE : 86%
04/2017 – 07/2019
Mumbai

EXPERIENCE

Incanus Technologies (Newton School)
Market Research Analyst Intern
08/2025 – 12/2025
Banglore
- Conducted in-depth market research and competitor analysis on 500+ tech companies using advanced Excel (Pivot Tables, VLOOKUP, Data Cleaning) and GenAI tools, identifying strategic opportunities to expand B2B partnerships and grow account portfolios.
- Worked in a process-driven, checklist-based environment, collaborating with cross-functional teams and Key Account Management & Marketing team to optimize strategies, contributing to a 35% increase in lead generation efficiency.

VIT
Research Intern
11/2023 – 07/2024
Chennai
- Pioneered research in graph theory, focusing on minimizing the Graceful Chromatic Number in Open and Closed ladder graphs.
- Analyzed chromatic numbers in 50+ graph structures, presenting findings that improved graph theory understanding by 30%.

PROJECTS

Detection of Eye Blink | Python , Computer Vision 🔗
- Created a real-time eye blink detection system using NumPy and OpenCV, reducing response time by 40% and improving user experience by 25%. The system's advanced algorithms enhanced detection accuracy making it more efficient.
- Achieved 95% accuracy in facial landmark detection across 1000+ images using advanced algorithms, enhancing system reliability for real-time applications.

Heart Disease Prediction | Python , Machine Learning 🔗
- Integrated multiple disease datasets to develop a predictive model, analyzing over 1000+ data points to increasing prediction accuracy and research capabilities.
- Implemented various strategies to enhance prediction accuracy by 25% and optimize performance outcomes, resulting in a 20% increase in model efficiency.

Fraud Detection | Python, Machine Learning 🔗
- Developed a fraud detection model using a 15-tree Random Forest ensemble on 6M+ financial transactions.
- Handled ~0.9% fraud class imbalance and achieved over 99% validation accuracy.

AI-Based Vulnerability Detection | Python, ML, CodeBERT, OpenAI 🔗
- Built an AI-based vulnerability detection system, classifying 12+ security risk types and improving detection accuracy from 75% to 100%, eliminating false positives and false negatives.
- Applied static analysis, feature engineering, and model evaluation (precision, recall, F1-score) to support threat detection on 68 balanced code samples.

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, Html, CSS.
Developer Tools: VS Code, Anaconda Navigator, Google Collab, Cisco Packet Tracer, R-Studio, LTspice, Microsoft Office.
Frame Works: Angular, FastAPI, Pandas, Numpy, OpenCV, Tkinter, Seaborn, XAMPP, SQLite.
Analytics & Visualization: Advanced Excel (Pivot Tables, VLOOKUP), Power BI.
Relevant Coursework: Data Structures Algorithms, Operating Systems, Computer Networks, Data Analytics, OOPS, Artificial Intelligence, Machine Learning.
Platforms: Windows, Linux.

CERTIFICATES

- DBMS | COURSERA 🔗
- GENERATIVE AI | COURSERA 🔗
- CYBERSECURITY | COURSERA 🔗

LEADERSHIP+ACTIVITIES

- Cloudops Technical Club - **Management Lead** (Led a team of 20 members, organized 6+ technical events, and streamlined club operations, increasing member engagement by 50%.)
- Bengali Cultural Society - **Marketing Lead** (Spearheaded marketing campaigns, boosting event attendance by 80% and growing social media reach by 30%, enhancing cultural society visibility)