Abhinav Tirole

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EDUCATION

Integrated Masters of Technology in CSE, Minors in Artificial Intelligence — CGPA - **8.51**
Vellore Institute of Technology (VIT), Bhopal, IN — *Jul. 2021 – May 2026*

Higher Secondary | Bhopal | Mar 20 - Jul 21 — Grade - **92.20%**

Secondary | Bhopal | Mar 18 - May 19 — Grade - **92%**

TECHNICAL SKILLS

Languages: Java, SQL, JavaScript, HTML/CSS

Frameworks/Libraries: React, Node.js, Express.js, Tailwind CSS, TensorFlow, Scikit-learn, Pandas, Matplotlib

Developer Tools: Postman API, Git, GitHub, VS Code, Google Collab, Jupyter Notebook

EXPERIENCE

Machine Learning Project Intern — Oct 2024 – Dec 2024
Infosys Springboard — *Remote*

- Developed and optimized a **machine learning**-based fraud detection model for job postings, achieving **96% accuracy** on randomly sourced data, significantly improving fraud detection capabilities.
- Led a cross-functional team of 5 members, implementing **Agile methodologies** to streamline workflows, enhance collaboration, and accelerate project timelines
- Deployed the model within a **Flask-based web application**, enabling **real-time** job post verification, reducing fraudulent listings.

PROJECTS

Job Posting Authenticity Analysis | *Flask, Scikit-learn, Pandas, NumPy, Python* — [GitHub](#)

- Developed a Flask-based web application integrating **5+ ML models** (Naive Bayes, SVM, Random Forest, XGBoost, Logistic Regression) to detect fraudulent job postings with 96% accuracy.
- Conducted extensive EDA and feature engineering using Scikit-learn, Pandas, and NumPy, optimizing model performance and fraud detection.
- Designed a **user-friendly UI** with HTML & CSS for real-time job authenticity analysis, enhancing accessibility for job seekers.

MediLink - Healthcare Management System | *MERN, JWT, Google APIs, Razorpay, Socket.io* — [GitHub](#) | [Live](#)

- Built a **MERN**-based healthcare management system with 10+ **REST API** endpoints, streamlining hospital workflows while optimizing MongoDB queries for 30% faster data retrieval.
- Implemented role-based authentication (**JWT**, bcrypt) and **Google Authentication**, securing patient, doctor, and admin access.
- Integrated Google Calendar & Meet APIs for automated scheduling, virtual consultations, and **Razorpay** for secure transactions.
- Created MediMeet, a 1:1 video and chat platform, enabling **real-time encrypted** doctor-patient **communication**.

CERTIFICATIONS

- Oracle Cloud Infrastructure Generative AI Professional — July 2024
- Applied Machine Learning in Python *(University of Michigan)* — Jan 2023

EXTRA CURRICULARS AND ACHIEVEMENTS

- **Hacktoberfest Contributor 23 & 24** – Completed 9+ open-source contributions across the season .
- **HR Core Team Lead, Data Science Club** : Coordinated 4+ monthly meetings, managing 5+ teams and 50+ members, increasing engagement by 30+ members in 6 months.
- **Core Team , NSS VIT Bhopal** : Successfully planned and executed 10+ key events, ensuring seamless organization, high engagement, and strong participation, each impacting 50+ attendees