

Kumar Aryan

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Education

Vellore Institute of Technology (VIT)

B.Tech in Computer Science Engineering

Bhopal, India

2023 – Ongoing

- **Coursework:** Cloud Computing, AWS, Azure, GCP, Data Science, AIML, DSA

Skills

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

Frameworks/Libraries: Node.js, Tailwind CSS, Bootstrap

Tools Technologies: AWS, WebDev, MySQL, Microsoft Power BI, XCode, Git, GitHub

AI/ML: APIs, LangGraph, ML algorithms, Decision Tree, Random Forest, KNN

Concepts: Data Structures, DBMS, OOPS, Operating System, Computer Network

Soft Skills: Problem Solving, Team Work, Communication, Creativity, Ownership

Experience

WebDev Intern

CodSoft

Remote

Jan 2024 – Feb 2024

- Built responsive dashboards using Tailwind CSS to display fraud detection and phishing analysis results
- Used JavaScript to create real-time visualizations and dynamic alerts for fraud and phishing detection
- Developed a live phishing URL checker with instant feedback using JavaScript
- Wrote SQL queries to analyze transaction patterns and detect anomalies in credit card data
- Managed backend database for online banking, handling accounts, logins, and transaction operations with SQL

Projects

PhishGuard : Protection from Phishing URL

[GitHub](#) ↗

- Developed a phishing URL detection tool using machine learning (Random Forest) to classify URLs as safe or malicious, accessible via an intuitive web interface
- Created a Chrome extension named “**PhishGuard**” that uses the Google Safe Browsing API to warn users of potentially harmful websites
- Tools Used: Flask, ML (Random Forest), Frontend (HTML, CSS, JS), Libraries (Pandas, Scikit, imblearn)

Fraud Detection in Online Transaction

[GitHub](#) ↗

- Built a machine learning-based web application to detect fraudulent transactions using a Decision Tree algorithm, with real-time user interaction through a web interface
- Tools Used: Flask, ML (Decision Tree), Frontend (HTML, CSS, JS), Libraries (Pandas, Joblib, Numpy)

Online Bank Management System

[GitHub](#) ↗

- Designed and implemented a desktop banking system for managing accounts, transactions, and user profiles with a backend database for secure data storage
- Tools Used: Python, MySQL, PyGame, Tkinter

Certifications

Introduction to Cyber Security by CISCO

Internet of Things by NPTEL (IIT Kharagpur)

MATLAB Onramp, ML by MathWorks

Generative AI by Coursera (Google)

Introduction to Programming by BITS Pilani