

Kumar Aryan

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EDUCATION

Vellore Institute of Technology (VIT)

B.Tech in Computer Science & Engineering

2023 - 2027

CGPA : 8.2/10

EXPERIENCE

Amazon ML Summer School

Amazon

Remote

August 2025

- **Implemented** supervised, unsupervised, and complex **machine learning algorithms** using a suite of **Python libraries** such as scikit-learn, NumPy, and pandas
- Developed machine learning models for diverse projects using advanced algorithms and tools, **achieving accuracy rates exceeding 95%**

PROJECTS

Indian Genome Atlas | *Python, admix tools, AADR Dataset, qpAdm*

[GitHub](#) | [Live](#)

- A **first-of-its-kind** scalable wrapper for **qpAdm** (Population Genetics Modelling Tool), enabling a GUI based analytics engine and removing Linux/R setup overhead
- Performed high-dimensional SNP preprocessing and validation on 124K markers across 100+ individuals using the **AADR dataset** provided by **David Reich Labs** with Python (numpy, pandas, sklearn)
- Applied qpAdm, PCA, and f-statistics to analyze Indian population structure, modeling key ancestries (**Russia_Andronovo, ILA, Iran_Shar-i-Sokhta**) with automated batch execution

PhishGuard | *Python, Flask, XGBoost, SVM, scikit-learn*

[GitHub](#)

- Developed a machine learning classifier to detect phishing URLs by analyzing HTML and content-based features, training and comparing multiple models including **Random Forest, XGBoost, and SVM**
- Achieved a high-performance benchmark with a Random Forest model, **reaching 98.5% accuracy** and a **precision score of 97.8%**, effectively distinguishing phishing from legitimate sites
- Created a **Chrome extension** named **“PhishGuard”** that uses the Google Safe Browsing API to warn users of potentially harmful websites

SkillMapper | *React.js, Express.js, JWT, MongoDB Atlas, Langchain*

[GitHub](#) | [Live](#)

- Built a **MERN** stack web app that generates personalized learning roadmaps based on user's skills, goals, and time availability, with static alternatives for beginners
- Integrated **LangChain** with **Gemini API** to dynamically create structured, role-specific learning paths using AI, tailored to each user's profile
- Implemented secure authentication using **JWT** and **protected** routes to manage user sessions and access control

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, SQL

Frameworks: Docker, Flask, React.js, Express.js, Tailwind CSS, LangChain

Libraries: TensorFlow, PyTorch, Keras, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, admixtools

Tools & Platforms: Amazon AWS, Git, GitHub, Power BI, Excel, Kaggle, MongoDB, Postman

Key Concepts: DSA, Operating Systems, DBMS, Computer Networks, qpAdm

Soft Skills: Problem Solving, Teamwork, Communication, Creativity, Ownership

ACHIEVEMENTS

- Solved **300+** Data Structures and Algorithms problems on **LeetCode** and **Codeforces**, enhancing problem-solving skills and algorithmic thinking
- Achieved a **Codeforces** contest rating of **1300**, placing in the top 30% of active global participants in competitive programming
- Finalist in **CyberSafety Hackathon** organized by MP Police, securing a spot among the **top 5** teams