VINAMRA AGRAWAL

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SKILLS

Languages: C++, Python, JavaScript

Machine Learning & AI: TensorFlow, Scikit-learn, NLP, Generative AI, OpenAI API, SHAP, LIME

Backend & APIs: Node.js, REST APIs

Frontend Exposure: HTML, CSS, JavaScript, Flutter

Tools & Platforms: Git, Linux, SQL

EDUCATION

Bachelor of Technology in Electronics & Computer Engineering

Jaypee Institute of Information Technology, Noida
2024- 2028 | CGPA:8.6

PUBLICATIONS

An Explainable Machine Learning Framework for URL-Based Phishing Detection
IEEE SB JIIT Booklet – 1st Edition, 2026 (Accepted)

- Co-authored a research paper proposing a two-layer ML + XAI framework for phishing detection.
- Implemented Random Forest and Logistic Regression models for URL classification.
- Integrated SHAP and LIME to provide local and global interpretability.
- Addressed severe dataset imbalance (159k+ phishing URLs) using robust evaluation metrics.

WORK EXPERIENCE

UI/UX Designer | Team Coordinator *May 2025 - June 2025*
Alpixn Technologies Pvt. Ltd., Gurugram

- Led frontend development and UI architecture for an AI-driven multilingual customer support platform supporting 3+ regional configurations.
- Developed responsive UI components and integrated REST APIs for real-time AI-powered query handling.
- Contributed to AI-based taxation platform by implementing modular frontend components and backend API integrations.
- Reduced user interaction steps by ~20% by restructuring navigation flows and optimizing UI logic.

PROJECT WORK

Phishing URL Detector — Explainable ML Framework
Implementation of research paper: "An Explainable Machine Learning Framework for URL-Based Phishing Detection"

- Developed a two-layer phishing detection system combining Random Forest and Logistic Regression for URL classification.
- Applied SMOTE to address severe dataset imbalance across 160k+ URLs (159k phishing, 820 legitimate).
- Integrated SHAP and LIME to provide global and instance-level explanations for model predictions.
- Built and deployed an interactive Streamlit application enabling real-time phishing detection and interpretability visualization.
- Live Demo: https://phishing-detection-url.streamlit.app/

AI Chatbot Using Generative AI:

- Built an NLP-based AI chatbot using OpenAI API evaluated on 50+ structured test queries across multiple user intents.
- Improved response relevance by ~30% through prompt refinement and intent classification tuning.
- Reduced average response latency by ~20% by optimizing API call structure and backend handling.
- Designed backend logic and integrated frontend interface for real-time user interaction.

Multilingual AI Platform for E-commerce:

- Designed scalable frontend architecture supporting 3+ regional language configurations.
- Implemented responsive UI components improving cross-device compatibility across desktop and mobile views.
- Integrated REST APIs to enable real-time AI-powered customer query resolution.
- Reduced UI navigation friction by restructuring workflows, reducing average user interaction steps from 8 to 6 (~25% improvement).

AI-Based Taxation Platform:

- Developed modular frontend components for an AI-powered tax assistance system.
- Simplified complex tax-query workflows, reducing average resolution time by ~20%.
- Improved UI clarity by restructuring input workflows and validation handling.

CERTIFICATIONS

- **MongoDB Bootcamp (2025)**: Acquired hands-on experience with MongoDB, covering database design, CRUD operations, and NoSQL data modeling.
- **Building AI Applications with DeepSeek (2025)**: Worked with DeepSeek models, embeddings, RAG pipelines, and AI agent workflows.
- **Unmanned Aerial Vehicle (UAV) Bootcamp Certification by CDAC (2026):** Completed hands-on training covering UAV architecture, flight control systems, and autonomous navigation fundamentals.
