Mayank Verma

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SKILLS

- **Languages:** JAVA, Python, SQL
- **Frameworks:** Pandas, NumPy, Scikit-Learn, Matplotlib, TensorFlow
- **Tools:** Androguard, SQL*Plus, MySQL

CERTIFICATIONS AND SKILL BADGES

- **Microsoft SC-900: Security, Compliance & Identity Fundamentals | [View Credential]**

  Scored 920/1000 — Demonstrated skills in Microsoft Entra ID, Microsoft Defender, Purview, and Zero Trust architecture.

- **SmartBridge + Google for Developers: Machine Learning Internship| [View Certificate]**

  Completed a 6-week ML internship with 97/100 score. Built "Financial Forecasting on Adult's Income" using Python, Pandas, and classification models.

- **Google Cloud Skill Badges:**

  • Develop GenAI Apps with Gemini and Streamlit | **[View Credential]**

  • Inspect Rich Documents with Gemini Multimodality & RAG | **[View Credential]**

  • Prompt Design in Vertex AI | **[View Credential]**

EDUCATION

- Computer Science Engineering | Vellore Institute of Technology Bhopal, Bhopal
  CGPA: 8.68 | (09/2023 – 07/2027)
- XII (CBSE) | Delhi Public School, Vindhyanagar
  2022
- X (CBSE) | The Aditya Birla Public School, Renukoot
  2020

ACADEMIC PROJECTS

- **Financial Forecasting on Adult's Income Prediction Models| [GitHub]**

  • Built a full ML pipeline that ingests the UCI Adult Income dataset, performs feature engineering and class balancing, and evaluates models like Logistic Regression, Random Forest, and XGBoost with ROC-AUC > 0.85.
  • Implemented hyperparameter tuning via GridSearchCV and automated preprocessing steps; deployed model-ready Jupyter notebooks and evaluation scripts.

- **APK Guard – Androguard based Android Malware detection | [GitHub]**

  • Engineered a backend system that uses Androguard to statically analyze APK files, extract permission matrices, and train a Random Forest classifier—achieving ~94% precision in malware detection.
  • Designed data pipelines (batch processing of APKs), model training, evaluation, and output formatted for future integration into a CI/CD pipeline.

- **Threat-Detection Engine (Cybersecurity ML) | [GitHub]**

  • Developed a threat classification backend leveraging NSL-KDD and phishing URL datasets, with ensembling (Random Forest + XGBoost) reaching ~91% accuracy.
  • Automated ingestion, class balancing, feature selection, and model validation using Python libraries (Pandas, Scikit-Learn, Joblib), producing scalable and reproducible results.

EXPERIENCE

- **2nd Place – Innovatex Hackathon (2025)**

  Led a 2-member team to design and implement a health prediction platform using real-time user input and ML classification. Recognized for innovation, clarity of approach, and fast prototyping under pressure.

- **Udyami 2025 – Finalist**

  Selected to pitch "Global Drum," a secure, copyright-checked beat marketplace with artist verification and gamified AI score boarding. Presented prototype to Googlers and received valuable feedback on feature prioritization.

- **Technovate 2025 – Top Team (Shortlisted)**

  Participated with "PhishSafe" – a real-time phishing detection browser extension backed by a Python ML backend. Project included threat analysis, breach checking, victim assessment module, and automated guided recovery.