Kumarvaishnav

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Education

VIT Bhopal University Aug 2022 – May 2026
B.Tech. Computer Science, AI & ML Specialization *CGPA: 8.46*

St. Mary's Inter College 2014 – 2022
High School: 10th – 94.4%, 12th – 82.2%

Experience

Cybersecurity & AI Intern - SecLance Pvt. Ltd. Dec 2024 – Feb 2025
Internship *Remote*

- Assisted in analyzing security logs to detect anomalies and unusual activity patterns, gaining exposure to real-world cybersecurity workflows.
- Collaborated with the team to understand core network security concepts, including firewalls, intrusion detection systems, and authentication mechanisms.
- Explored applications of machine learning in cybersecurity, contributing to documentation, tool testing, and research on AI-driven threat detection techniques.

Technical Skills

Programming Languages & Frameworks: Python, Java, Dart, Bash, SQL, NumPy & Pandas, Scikit-learn, Matplotlib, TensorFlow, PyTorch, OpenCV, FastAPI, Flask, Django

Database & Tools: MySQL, Docker, Git/GitHub, Jupyter, Basic Linux, AWS (SageMaker, EC2, S3, RDS), Render, Vercel, Postman, Figma, Dreamweaver, Notion, n8n Automation

Projects

Market Basket Analysis | *Python, pandas, Apriori, Jupyter*

- Analyzed retail transaction datasets to identify frequent itemsets and association rules using Apriori algorithm.
- Generated insights into customer purchase patterns to assist in marketing and cross-selling strategies.
- Visualized association rules and itemset relationships using **network graphs and heatmaps** to communicate results effectively.

Gender Detection using Voice Recognition | *Python, Librosa, SVM, Scikit-learn*

- Preprocessed and extracted Mel-frequency cepstral coefficients (MFCCs) and other acoustic features using Librosa.
- Trained and evaluated an SVM classifier, achieving high accuracy in gender classification from voice data.
- Optimized the pipeline with feature scaling and cross-validation, improving generalization across diverse voice samples.

Image Classifier - Udacity Project | *Python, PyTorch, torchvision, NumPy, Matplotlib*

- Built and trained a deep learning model using **VGG16 arch** to classify flower images across **102 categories**.
- Implemented training pipeline with **PyTorch**, enabling GPU acceleration, custom hyperparameters, and model checkpointing.
- Developed prediction script to perform inference on new images with top-K class probabilities.

Extracurricular Activities

- President, **D2C Igniters Club, VIT Bhopal** – Organized Foragers 3.0 and managed 200+ participants (2025).
- Core Member, **D2C Igniters Club & iOS Club** – Led the media team for flagship events like VIBES and Foragers 2.0.