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Experience

Python Web Development Intern | ShadowFox

March 2025 – March 2025

- Collaborated on developing and maintaining dynamic web applications using Python-based frameworks.
- Built and optimized RESTful APIs, improving backend performance by **30%** and reducing response time by **25%**.
- Integrated frontend interfaces with backend logic, enhancing overall user experience and functionality.
- Assisted in debugging, testing, and deploying web modules, increasing system reliability by **~20%**.
- Worked with a team of developers following Agile methodologies to deliver project milestones on time.

AI&ML Developer | V-Cube

September 2024 – September 2024

- Designed and optimised machine learning models for image tagging, achieving 92% accuracy through experimentation with model architectures and hyperparameter tuning.
- Performed advanced data preprocessing, feature engineering, and cross-validation to enhance model generalisation and improve predictive reliability by 20%.
- Evaluated model performance using statistical metrics and empirical testing, resulting in a 30% faster data analysis pipeline and improved operational decision-making.

Projects

Disease Prediction Web App |

June 2025 – July 2025

Python, Streamlit, Scikit-learn, Pandas, Random Forest, Label Encoding

- Developed an interactive Streamlit web app to predict diseases based on user-selected symptoms using a Random Forest Classifier.
- Trained the model on a labelled medical dataset, achieving **~92% prediction accuracy** on test data.
- Implemented dynamic symptom selection and real-time prediction display for an intuitive user experience.
- Optimized data preprocessing and encoding to ensure smooth model integration and fast response time.

Securing Data in Images using SHA and FCC |

November 2024 – December 2024

Python, Cryptography, SHA Algorithm, FCC, Image Processing

- Built a Python-based system to securely embed and extract confidential data within images using **SHA hashing** and **FCC encoding** techniques.
- Implemented SHA for integrity verification, ensuring **100% data authenticity** during transmission.
- Applied FCC-based steganography to hide encrypted information without noticeable image distortion.

Automatic Vehicle Number Plate Recognition System |

August 2023 – August 2023

Python, OpenCV, PyTesseract, OCR, Image Processing, File I/O

- Built a Python system to detect and extract vehicle number plates using OpenCV and PyTesseract.
- Applied image preprocessing (grayscale and thresholding), improving OCR text recognition accuracy by **~25%**.
- Verified extracted plates against a registered database, achieving **90%+ validation accuracy** on test images.
- Developed a clean and modular codebase for easy deployment and maintenance in access control systems.

Education

CMR Engineering College | Hyderabad, India

Bachelor of Technology (B. Tech) | 2022 – 2026 (Expected)

Skills

Programming Languages: Python, SQL, JavaScript

Front-End Development: HTML5, CSS3, Node.js, React.js

Back-End Development: Node.js, Express, RESTful APIs

Databases: MySQL, MongoDB

Tools & Version Control: Git, GitHub

Achievements

- Team Lead** — Project selected for **MSME** and **Smart India Hackathon (SIH)** under college group organisation.