Het Bhutak

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EDUCATION

B. Tech – Computer Science & Design *(2022–2026)*
G.H. Patel College of Engineering and Technology, CVM University
CGPA: **8.05 / 10**

CORE SKILLS

AI/ML: Supervised & Unsupervised Learning, Deep learning (CNNs, RNNs, LSTM), Computer Vision (Object Detection)
Frameworks & Libraries: PyTorch, TensorFlow, Scikit-learn, OpenCV, NumPy, Pandas
MLOps & Model Integration: ML Pipeline Development, Model Inference APIs, Experiment Tracking (MLflow – basic), Model Deployment with REST APIs
Backend APIs & Data: Python, Flask, FastAPI, RESTful API Design, SQL, MongoDB
Developer Tool: Git, GitHub, Jupyter Notebook, CoLab, VSCode

RELEVANT EXPERIENCE

AI/ML Intern — Racila Softech Pvt. Ltd.
May 2025 – August 2025

- Built an end-to-end Speech-to-Text Resume Builder, integrating audio preprocessing, transcription, and structured resume generation, achieving ~90% transcription accuracy and reducing manual resume creation time by ~70%.
- Designed and implemented backend services using Python and Flask, exposing REST APIs for audio ingestion, transcription, and document generation.

PROJECTS

InFlow – Smart Bus Surveillance & Crowd Monitoring System
Computer Vision | Real-Time Analytics

- Designed a **computer vision–based surveillance system** for public buses to estimate crowd density and monitor passenger flow in **smart city environments**.
- Built an **admin dashboard** to visualize real-time bus data, crowd density metrics, and surveillance insights for operational decision-making.
- Targeted deployment for **urban smart-city uses cases (e.g., GIFT City, Gujarat)**.

NIDS – Machine Learning-Based Network Intrusion Detection System
Cybersecurity | Sequence Modelling

- Developed a **network intrusion detection system** to classify traffic as normal or malicious using supervised ML models.
- Trained and evaluated **LSTM, RNN, and KNN** models on the **NSL-KDD dataset** for attack detection.
- Implemented data preprocessing, feature engineering, and model evaluation pipelines to compare classical and deep learning approaches.

Human–Animal Detection & Industrial OCR System
Computer Vision | OpenCV | Deep Learning | OCR

- Built a modular computer vision system combining **real-time human–animal detection** in videos and **industrial OCR,** designed for surveillance and asset-identification use cases.
- Developed deep learning–based detection and classification workflows with real-time **bounding box visualization** and performance evaluation using **precision, recall, and FPS metrics**.
- Designed an end-to-end OCR pipeline using OpenCV and Tesseract to extract, clean, and export structured text (CSV/JSON) from noisy industrial/military stencil images.

ACHIEVEMENTS

- Winner – **5G DoT Hackathon**, awarded **₹1,00,000 in funding** for Robotics-based prototype development
- Gained **1 year of professional internship experience** in Artificial Intelligence, Machine Learning, and Software Development, working on real-world, production-oriented systems.
- **Presented a startup prototype at IMC'25**, Asia's largest technology and innovation conference, demonstrating applied engineering and product thinking to industry stakeholders.