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

Programming Languages: Pythion, C/C++, JavaScript, Typescript
Backend Development: REST API Design, Authentication, Role Based Access Control, Backend System Integration
Frameworks & Database: Flask, FastAPI, SQL, MongoDB
System Fundamentals: DSA, OPPs, Computer Networks Devops, System Design
Developer Tools: Git, GitHub, VS Code

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
Backend Systems | Data Processing | Web Dashboard

- Built a **backend-driven surveillance and monitoring platform** for public buses, designed to process real-time inputs and provide operational insights for smart city use cases.
- Designed an **admin web dashboard** to visualize live bus data, analytics, and system status for decision-making.
- Implemented modular backend logic to support **real-time data updates, role-based access, and system scalability**.

NIDS – Machine Learning-Based Network Intrusion Detection System
Backend Systems | Data Processing | Security

- Built a **backend-driven intrusion detection system** to classify network traffic and generate security insights.
- Implemented **data preprocessing and classification workflows** to analyze network traffic records and identify malicious patterns.
- Focused on **clean data pipelines, modular classification components, and extensible system design** for future rule-based or ML-based enhancements.

Human–Animal Detection & Industrial OCR System
Backend Integration | OpenCV Pipelines | System Design

- Developed a **multi-module software system** integrating real-time video processing and image-based OCR into a single backend-driven application.
- Built **data ingestion and processing pipelines** using OpenCV to handle video streams and image inputs, exposing results via structured outputs.
- Implemented backend logic for **bounding box visualization, result formatting, and export of processed data** in machine-readable formats (CSV/JSON).
- Designed the system with a **modular architecture**, enabling independent execution of detection and OCR components and easy extension for logging, alerts, or storage.

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.