Tejas Surve

+91 9370041601
tejassurve601@gmail.com
linkedin.com/in/tejas-surve-089365370
Pune, Maharashtra, India

Professional Summary

A results-driven and innovative Electronics & Telecommunication Engineering student with hands-on experience in designing and deploying AI-driven solutions. Passionate about leveraging Generative AI, Large Language Models, and Data Analytics to solve complex problems and drive business growth. Proven ability to translate business requirements into technical strategies through practical project experience with LLM frameworks like LangChain, computer vision, and cloud platforms. Eager to contribute technical expertise and a strategic mindset to IBM's CIO Technology Platform Transformation team to build AI-first technology platforms.

Skills

AI & ML	Data & Programming	Tools & Platforms	Professional
Generative AI	Python (Pandas, NumPy)	Cloud Platforms (Familiarity)	Problem-Solving
LLMs	SQL	Git & Version Control	Agile Methodologies
LangChain & LangGraph	Data Analysis & Viz	OpenAI & Google AI APIs	Stakeholder Comms
Computer Vision & NLP	RAG & Streamlit	Jupyter Notebooks	Collaboration
AI Ethics & MLOps	C/C++	Docker & Flask (Familiarity)	Project Management
Deep Learning	IoT & Embedded Systems	3D Modeling & Printing	Public Speaking

Relevant Coursework & Ongoing Learning

Advanced Machine Learning • Building LLM Applications with LangChain • Cloud Computing & Deployment • Deep Learning Frameworks (TensorFlow, PyTorch)

AI & Data Science Projects

Smart Navigation System for the Visually Impaired, *Ongoing Project*
- Developing an AI-powered wearable using **computer vision** and ultrasonic sensors for real-time obstacle detection.
- Implementing a lightweight neural network on an embedded system for efficient, on-device object recognition.
- Designing haptic and auditory feedback to translate environmental data into intuitive, actionable alerts.

UniChat - Generative AI Assistant, *Python, Streamlit, OpenAI API, Google AI API*
- Engineered a multi-modal AI assistant leveraging **Large Language Models (LLMs)** for voice, image, and text interactions.
- Designed a real-time analytics dashboard with **sentiment analysis** to process and visualize user interaction data.
- Integrated three distinct AI APIs and deployed the full-stack application to a cloud platform, ensuring scalability.

Portable ECG Anomaly Detection System, *ESP32, Python, IoT, Cloud*
- Developed an end-to-end IoT solution to monitor and analyze ECG signals in real-time for early health-event detection.
- Implemented signal processing algorithms to **collect, clean, and preprocess** time-series biometric data.
- Established a cloud-based data pipeline to store, analyze, and visualize ECG graphs for remote data access.

Autonomous Fighting Robot, *Embedded Systems, C++, Robotics*
- Designed and built a competitive humanoid robot, placing **4th nationally** in a DIAT (DRDO) collaborated event.
- Developed control algorithms to process sensor data for executing complex strategic actions.

Professional Experience

Jul 2022–Aug 2022 — **Control Engineer Intern**, *Mikro Innotech India Pvt. Ltd.*, Pune, India
- Collaborated with cross-functional teams to understand system design and integrated workflow for industrial automation.

Dec 2024–Jan 2025 — **Jr. Programmer Intern**, *Laser Automation Pvt. Ltd.*, Pune, India
- Applied programming fundamentals to develop and deploy control logic for various industrial PLC applications.

Education

Jan 2023–Present — **B.E., Electronics & Telecommunications**, *PVGCOET & GKPIOM*, Pune, CGPA: 7.26 (Till 6th Sem.)
Achievement: Ranked 4th Nationally at Roborashtra, a DIAT (DRDO) robotics competition.

Dec 2020–Jun 2023 — **Diploma, Electronics & Telecommunication**, *Bharati Vidyapeeth's JNIOT*, Pune, Percentage: 85.47%
Achievement: Ranked 1st in college for MSBTE board examination results.

Certifications

Data Analytics & Machine Learning – *Novitech Learning Hub*

Data Analytics Job Simulation – *Deloitte Australia (Forage)*

C & C++ Developer – *VITS IT Services*