

YASH SHARMA

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Profile Summary

Analytical B.Tech Data Science student (CGPA: 9.6) with hands-on experience in Machine Learning, Deep Learning, and Generative AI. Skilled in Python, TensorFlow, with strong understanding of data pipelines and model deployment. Focused on building efficient, real-world AI solutions with measurable impact.

Education

B.Tech in Computer Science & Engineering (Specialization: Data Science)

ITM Vocational University, Vadodara

2022–2026

CGPA: 9.6

Experience

1. Apollo Tyres Ltd., Vadodara :- Data Science Intern

July 2025 – September 2025

- Completed practical training in the Data Science domain as part of B.Tech
- Worked on data collection, cleaning, and exploratory data analysis (EDA) to extract meaningful insights from operational datasets.
- Assisted in building dashboards for internal reporting and demonstrated strong teamwork, learning attitude, and professionalism.

2. AI/ML Engineer Intern: —Keya Fusion Technology Pvt. Ltd. ,Vadodara

September 2025-Present

- Worked with the R&D team to design, test, and deploy ML-based automation solutions in a hardware-centric environment.
- Developed Python-based preprocessing pipelines to convert and integrate LabVIEW-generated data into machine learning workflows.
- Utilized OpenCV for image processing and supported prototype model validation using real devices.

Major Projects

1. Tuuna – Autonomous AI Agent with Vision & System Control

- Built an agentic AI with screen vision, OS-level mouse/keyboard control, and autonomous task execution.
- Implemented self-healing “God Mode” for dynamic code generation, auto-debugging, and dependency installation.
- Designed a modular Flask architecture with AI decision loops, safety controls, and multi-model fallback.

2. GovSecAI – AI-Powered Government Threat Analysis System

- Utilized BERT & NLP pipelines for text classification, entity recognition, and sentiment analysis.
- Processed and visualized results using Python, Pandas, and Matplotlib dashboards.
- Enabled data-driven threat detection and policy risk forecasting for government use cases.

3. MedAI Diagnostics – Automated Disease Prediction Platform

- Developed ML models to predict diabetes, heart, and liver diseases with up to 95% accuracy.
- Integrated TensorFlow models with REST APIs for real-time health predictions.
- Implemented Explainable AI (XAI) for transparent model interpretation and trust.

Technical Skills

- Languages: Python, SQL, JavaScript
- Libraries & Frameworks: TensorFlow, Keras, Scikit-learn, OpenCV, Pandas, NumPy, LangChain
- Tools & Platforms: Git, Docker, Jupyter, Streamlit, FastAPI, Power BI, MongoDB, VS Code, LabView
- Concepts & Areas: Deep Learning, CNN, NLP, LLMs.

Certifications

- Applied AI Certification – Microsoft: Comprehensive coverage of ML algorithms and Azure AI.
- Full Data Science Certification – Oracle: Advanced statistical modeling, data pipelines, and visualization.
- TensorFlow Developer Certificate – Google
- Generative AI with LLMs – DeepLearning.AI

Achievements

- 2nd Place – TechSaksham National Showcase (2025): Recognized among top 16 national AI teams by Microsoft & SAP for developing an AI-based Healthcare Assistant.