

# Parth Santosh Tripathi

Pune, India | tripathiparth2411@gmail.com | +91 8237407325 | LinkedIn | GitHub

## Profile

---

Over a year of hands-on experience in AI/ML and Generative AI, contributing to real-world projects in customer analytics, medical imaging, and test automation. Currently working with a funded FoodTech startup on a sales and customer behavior platform, with prior research experience at the Symbiosis Centre for Applied AI on real-time aerial and naval object tracking. Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate, skilled in Python, TensorFlow, PyTorch, SQL, and deployment tools, with a focus on delivering practical, data-driven solutions.

## Education

---

**B.Tech in Artificial Intelligence & Machine Learning**, Symbiosis Institute of Technology, Pune

## Technical Skills

---

**Programming & Databases:** Python, Java, C, MySQL, MongoDB

**AI/ML & Frameworks:** Machine Learning, Deep Learning, Computer Vision, NLP, TensorFlow, PyTorch, Keras, scikit-learn, OpenCV, LangChain, MLFlow, NumPy, pandas, Statistical Modelling

**Cloud, DevOps & Testing:** AWS, Docker, GitHub, Selenium, TestNG, PyTest

**Visualization & Analytics:** Power BI, Tableau, Plotly, Excel, PowerPoint

## Projects

---

**Sales & Customer Behavior Dashboard (Funded FoodTech Startup)** (Python, Pandas, Streamlit, Plotly, MongoDB, REST APIs, scikit-learn)

- Currently developing an interactive dashboard for sales KPIs (orders, revenue, AOV, cancellations, refunds).
- Designed and tested customer segmentation, retention cohorts, and churn analysis modules using static datasets; currently integrating live data.
- Contributing to building a scalable platform that will support data-driven decision-making for growth and retention strategies.

**2D Echocardiogram Video Phase Detection** (Python, TensorFlow, Keras, OpenCV, NumPy, Matplotlib)

- Developed semi-supervised DL pipeline (Autoencoder + Bi-LSTM + Attention) for systole/diastole detection.
- Integrated U-Net segmentation; achieved **99.3% phase** and **97.9% volumetric** accuracy.
- Automated inference workflow; research paper under review.

**OpenMRS Test Automation** (Java, Selenium, TestNG, Apache POI)

- Automated hospital workflows (login, patient registration, discharge), reducing manual testing time by 60%.
- Designed a robust TestNG suite with data-driven testing and detailed reporting.

**NFT Explorer & Price Predictor** (Python, TensorFlow, Streamlit, Power BI, DVC, Docker, AWS)

- Built regression and LSTM models for NFT price prediction (**85% accuracy**).
- Designed and deployed Streamlit app & Power BI dashboards for interactive analytics.
- Implemented **MLOps pipeline** with DVC (versioning), Docker (containerization), CI/CD automation, and AWS (scalable deployment).

**AstroGo — AI Astrology Platform** (OpenAI-GPT-4o, FastAPI, Vercel)

- Fine-tuned GPT-4o on a curated astrology dataset for Kundali generation and real-time predictions.
- Built FastAPI backend integrated with a React frontend.
- Deployed globally on Vercel, ensuring low-latency consultations.

## Internships

---

**Symbiosis Centre for Applied AI (SCAAI) — Project & Research Intern** (Oct 2024 – Jan 2025)

- Supported a government surveillance project on real-time aerial and naval object tracking.
- Collected, pre-processed, and annotated large-scale datasets to enhance detection accuracy.

## Achievements, Certificates & Leadership

---

- Ranked in **Top 150 out of 1000+ teams** in Bajaj HackRx 6.0
- **Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** (Valid Sep 2025 – Sep 2027)
- Certifications: Generative AI with LangChain & HuggingFace (Udemy), SQL (HackerRank), Data Science (PW Skills)
- **Co-Head, IEEE GRSS SIT Pune** — Represented SIT Pune at IIT Bombay and led workshops on geospatial tech for 15+ participants