

Hari Patel

GitHub | LinkedIn | Kaggle | Portfolio

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SUMMARY

AI/ML Engineer specializing in computer vision, NLP, and production-grade machine learning systems. Proven experience building and deploying full-stack AI applications with measurable impact using TensorFlow, PyTorch, FastAPI, and cloud platforms.

EXPERIENCE

- Samatrix Consulting Pvt. Ltd.** Remote
 - Data Analyst Intern* May 2025 – June 2025
 - Cross-Domain Analytics:** Executed 7 production-grade projects across finance, healthcare, marketing, manufacturing, and governance using statistical modeling and ML techniques on real-world datasets.
 - Statistical Modeling:** Applied survival analysis, A/B testing, control charts, and Monte Carlo simulation using Python (pandas, lifelines, scipy, scikit-learn) for actionable insights.
 - Strategic Reporting:** Delivered executive-ready visualizations and reports with matplotlib/seaborn, translating statistical findings into business recommendations.

TECHNICAL SKILLS

- AI/ML Frameworks & Algorithms:** TensorFlow, PyTorch, Scikit-learn, OpenCV, Transfer Learning (MobileNetV2, ResNet), Random Forest, XGBoost, Logistic Regression, LIME/SHAP (XAI)
- Programming & Scripting:** Python, SQL, Rust, JavaScript, TypeScript, Java, C++, R
- Backend Development & APIs:** Flask, FastAPI, Node.js, Express.js, REST API Design, WebSockets
- Frontend & Mobile:** React.js, TypeScript, Vite, Flutter, HTML5/CSS3, Responsive Design
- Data Science & Analytics:** NumPy, Pandas, Matplotlib, Seaborn, Feature Engineering, Statistical Modeling, A/B Testing, Hypothesis Testing, Survival Analysis
- MLOps & DevOps:** Git/GitHub, Model Deployment, Cloud Platforms (AWS, GCP), Vercel
- Databases:** MongoDB, MySQL, PostgreSQL, Database Design

EDUCATION

- Charotar University of Science and Technology** Changa, Gujarat
 - Bachelor of Technology in Artificial Intelligence & Machine Learning; CGPA: 9.6/10.0* Aug 2023 – May 2027

PROJECTS

- FarmFriend: Smart Agriculture System** | *GitHub* | **TensorFlow, React, Flask, TypeScript:** Engineered full-stack AI platform with MobileNetV2-based plant disease classifier (90% accuracy on PlantVillage dataset) and ML irrigation scheduler (85% accuracy). Deployed production system on Vercel with React/TypeScript frontend and Flask REST API backend. **Impact:** 7 stars, 4 forks on GitHub.
- Digital Dental Screening & Consultation** | **PyTorch, FastAPI, Flutter:** Built multi-modal AI telehealth platform for dental disease detection with PyTorch deep learning models achieving 91% accuracy on clinical photos and 75% on X-rays. Developed FastAPI backend with RESTful endpoints and cross-platform Flutter mobile application with integrated chatbot for patient consultations.
- XAI Phishing Detector** | **Scikit-learn, LIME, Flask, MLOps:** Developed explainable AI cybersecurity system for phishing URL detection using Random Forest trained on 550K+ URLs with high-recall optimization. Implemented LIME-powered interpretability framework providing feature-level explanations for each prediction. Built end-to-end MLOps pipeline with automated feature engineering and Flask web deployment.

CERTIFICATIONS & ACHIEVEMENTS

- Google Data Analytics Professional – Coursera
- Machine Learning with Python – IBM
- AWS Machine Learning Foundations – AWS Educate
- Intermediate Machine Learning – Kaggle
- Generative AI Fundamentals – Databricks
- Data Visualization with Tableau – UC Davis
- DBMS (Top 1%) – NPTEL
- DSA using Java (Top 5%) – NPTEL