Hari Patel

LinkedIn |GitHub |Kaggle |LeetCode |HackerRank |Portfolio

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SUMMARY

Motivated B.Tech AIML student with a strong foundation in AI, ML, Data Science, and Software Development. Skilled in developing full-stack AI solutions across computer vision, NLP, and time series forecasting. Proficient in Python, Java, C++, SQL, and Rust, with experience in tools like TensorFlow, PyTorch, Scikit-learn, and OpenCV. Passionate about solving real-world problems through technology, with proven academic and project-based achievements. Actively seeking opportunities as a Data Scientist, Analyst, or AI/ML Engineer.

TECHNICAL SKILLS

- **Programming Languages**: Python, SQL, Java, C++, Rust, JavaScript, TypeScript, R
- **AI/ML Frameworks**: TensorFlow, PyTorch, Scikit-learn, OpenCV, Flask
- **Web Development**: React.js, Node.js, Express.js, MongoDB, MySQL
- **Data Science & Analytics**: NumPy, Pandas, Matplotlib, Seaborn, Power BI, NLP, Computer Vision
- **Cloud Platforms**: AWS, GCP
- **Tools**: Git

PROJECTS

- **Smart Agriculture System [GitHub]**: AI-powered system with MobileNet (91%) for disease detection and logistic regression (85%) for irrigation scheduling. Built RESTful APIs with Flask and frontend using Vite + React + TypeScript.
- **Dental Disease Detection [GitHub]**: CNN model using ResNet18 on X-ray images for multi-class dental disease classification. Achieved 91% accuracy with image preprocessing and augmentation.
- **Smart Solar Panel Positioning [GitHub]**: Regression models (Random Forest, Gradient Boosting, LSTM) used to predict solar panel tilt and irradiance based on environmental data. Random Forest achieved $R^2 = 0.9999$.
- **Fake News Detection [GitHub]**: Developed NLP pipeline using CountVectorizer, TF-IDF, HashingVectorizer, and Doc2Vec with multiple classifiers. Best model: TF-IDF + PassiveAggressiveClassifier (93.21%).
- **AI Educational Chatbot App [GitHub]**: Chatbot for student queries built with NLTK, Streamlit, and HTML/CSS. Supports real-time responses, chat history, and custom modules.
- **British Airways Virtual Experience [GitHub]**: Completed tasks involving web scraping (BeautifulSoup), sentiment analysis, and ML-based customer behavior prediction as part of data science job simulation.

EDUCATION

- **Charotar University of Science and Technology (CSPIT)** — Changa, Gujarat, India
  Bachelor of Technology in Artificial Intelligence and Machine Learning; CGPA: 9.38 — *2023 – 2027*

CERTIFICATIONS

- **Artificial Intelligence Fundamentals** – IBM
- **Data Fundamentals** – IBM
- **Data Analysis with Python** – freeCodeCamp
- **Machine Learning with Python** – freeCodeCamp
- **British Airways Data Science Simulation** – Forage
- **Generative AI Fundamentals** – Databricks
- **Deep Learning Essentials** – NVIDIA
- **AWS ML Foundations** – AWS Educate
- **DSA using Java** – NPTEL (Top 5%)
- **Database Management Systems** – NPTEL (Top 1%)

COMPETITIONS & ACHIEVEMENTS

- **DoseHack 24 (Meditab)** – Built RL-based solution in 24 hrs.
- **LeetCode** – 200+ problems; Rating: 1532.
- **Codeforces** – Contest Rating: 968.
- **HackerRank** – 5-star in C++, Java, Python, SQL, and C.
- **NPTEL** – Top 5% in DSA (Java), Top 1% in DBMS.