Yash Parmar

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Professional Summary

Data Scientist and Machine Learning Engineer skilled in developing end-to-end AI systems from data preprocessing to model deployment. Experienced in building predictive models, optimizing ML pipelines, and integrating intelligent features into scalable web applications. Proficient in Python, TensorFlow, PyTorch, and data engineering tools. Passionate about applying AI to real-world business and system optimization challenges.

Education

Vidyalankar Institute of Technology, Mumbai 2024 – 2027
B.Tech in Computer Engineering CGPI: 9.53 | Honours: AI & ML
Core Coursework: Machine Learning, Data Mining, Statistics, Deep Learning, DSA, DBMS, Computer Networks

Technical Skills

Programming: Python, R, SQL, C/C++, Java
Libraries & Tools: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, OpenCV, Flask, Jupyter
Concepts: Supervised & Unsupervised Learning, NLP, Computer Vision, Data Preprocessing, Model Evaluation, Feature Engineering
Deployment: Flask, Docker, Firebase, GCP, Azure
Other Tools: Git, Linux, VS Code, Power BI

Work Experience

ThumbLab — Co-Founder & Technology Lead Oct 2025 – Present
Mumbai, Maharashtra | Remote

- Lead development of intelligent web systems integrating analytics and ML-driven components using Python, Next.js, and Node.js.
- Designed modular data pipelines for performance tracking and predictive insights across client projects.
- Enhanced data visualization and API accuracy, ensuring scalability and cross-platform integration.

Freelance ML Developer | Remote Jan 2024 – Oct 2025
Developed data-driven applications focusing on ML lifecycle automation and deployment.

- Engineered predictive systems using Flask, TensorFlow, and Scikit-learn; improved accuracy metrics by up to 15%.
- Streamlined data preprocessing pipelines, reducing model training time by 25%.

Key Projects

VisionIQ – Automated Defect Detection System | TensorFlow, Flask, OpenCV Oct 2025

- Built CNN-based defect detection system using transfer learning (ResNet) for industrial quality inspection.
- Achieved 92% classification accuracy and reduced inference latency by 30% through model quantization.
- Deployed Flask API in Docker for real-time inference; automated data collection and retraining pipeline.

StockSage AI – Predictive Stock Analysis | Flask, XGBoost, Scikit-learn Nov 2024

- Developed ensemble-based predictive model using XGBoost and Random Forest; improved RMSE by 12%.
- Deployed via Flask API with real-time visualization dashboard for dynamic trend tracking.

LangSQL – NLP-driven SQL Generator | Python, Django, TensorFlow Mar 2025

- Created NLP pipeline translating natural language to SQL queries using semantic parsing and text embeddings.
- Integrated TensorFlow-based parser achieving 85% query interpretation accuracy.

EduAI – Personalized Learning Platform | MERN, Firebase, ML APIs Feb 2025

- Developed adaptive learning system powered by ML algorithms for personalized content and assessments.
- Merged user analytics and performance tracking for dynamic progress predictions.

Achievements & Certifications

Smart India Hackathon 2024 – Selected among top 30 teams at institute level for national submission · Quasar 3.0 Finalist · Inspiron 4.0 Finalist · **IIM Business Management Certification (2025)** – Strategic Leadership in Tech · AWS Cloud Practitioner (In Progress) · Open Source Contributor (10+ PRs)

Research Interests & Strengths

Focus Areas: Machine Learning Systems, NLP, Computer Vision, and Applied AI in Software Development.
Strengths: Data Analysis, Model Optimization, MLOps, and Deployment of ML models in real-world systems.