

Shail K Patel



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Summary

Third-year Artificial Intelligence and Machine Learning engineering student seeking a full-time internship opportunity (college-approved). Experienced in developing and deploying end-to-end ML solutions, with hands-on work in computer vision, academic risk prediction, and explainable AI. Skilled in Python, PyTorch, and Scikit-learn, with a strong interest in Large Language Models (LLMs), NLP, and generative AI. Proven ability to build practical systems and publish research, with a focus on delivering measurable impact.

Education

LJ University 2023 – 2027 (Expected)
B.Eng in Artificial Intelligence and Machine Learning

Experience

Machine Learning Engineer Jan. 2025 – Jun. 2025
GetMySpace (Parking Management Startup)

- Contributed to developing the prototype for real-time parking management using computer vision and ML.
- Built and deployed PyTorch models, reducing processing time to $\sim 4s$ with update latency of $\sim 0.7s$.
- Designed scalable backend and MongoDB to manage prediction outputs, user logs, and dynamic updates.

Publications

A Two-Stage, Leakage-Aware Framework for Early Academic Risk Detection in Undergraduate Engineering Cohorts Sep 2025
doi.org/10.5281/zenodo.17095218

Projects

PredictGrad – Academic Risk Detection with ML Jun 2025
predictgrad.streamlit.app

- Built regression and classification pipelines (Voting/Stacking with Ridge, CatBoost, BalancedBagging, ExtraTrees) to forecast marks and flag at-risk students.
- Delivered SHAP-based explanations and a risk dashboard; achieved MAE 5.16–7.10 and F1-score 0.51.

Beyond The Marks – Learning Impact & Bias Detection Tool Mar 2025
beyondthemarks.streamlit.app

- Applied statistical + ML methods with SHAP to analyze performance, detect grading bias, and measure teacher effectiveness.
- Engineered indicators (avg. marks, attendance trends) and flagged bias when Shapley impact > 0.30 .

Certifications

Stanford: [Supervised Machine Learning](#)
IBM: [Python for Data Science](#) , [Databases for Data Science](#) , [Tools for Data Science](#)

Technologies

Python, Scikit-learn, TensorFlow, Keras, PyTorch, Pandas, NumPy, Streamlit, Flask, FastAPI, SciPy, Seaborn, PostgreSQL, MySQL, MongoDB, SQLite, Jupyter Notebooks

Skills

Supervised Machine Learning, Deep Learning, Neural Networks, SQL, NoSQL, Data Analysis, Statistical Analysis, Git, LLM, Data Preparation & Pipelines, Probability & Statistics