

# KRINA PATEL

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## SUMMARY

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Aspiring AI/ML Engineer with a strong foundation in machine learning, data preprocessing, and model building. Proficient in Python and popular ML libraries including Scikit-learn, XGBoost, and Pandas. Still learning advanced topics while actively building impactful projects that demonstrate end-to-end ML capabilities including training, evaluation, and explainability. Passionate about solving real-world problems using data and algorithms.

## SKILLS

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**Languages:** Python, SQL

**Libraries/Tools:** Scikit-learn, Pandas, NumPy, XGBoost, SHAP, Matplotlib, Seaborn, MLflow, Jupyter, Power BI

**ML Concepts:** Classification, Regression, Clustering, Model Evaluation, Feature Engineering, ML Lifecycle

**Soft Skills:** Problem Solving, Communication, Attention to Detail, Team Collaboration

## PROJECTS

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### Fashion Inventory Demand Forecasting

[GitHub](#)

*Tools: Python, Random Forest, KMeans, Scikit-learn, Seaborn*

- Developed a classification model to predict which products would remain unsold.
- Applied KMeans clustering to group stores based on discount, pricing, and demand.
- Used feature importance to identify key drivers of sales performance and optimize seasonal planning.

### Customer Churn Prediction with MLflow

[GitHub](#)

*Tools: Python, Logistic Regression, Scikit-learn, MLflow*

- Built an end-to-end ML pipeline to predict churn for a telecom company.
- Used MLflow for model tracking, logging metrics, and saving artifacts.
- Achieved 80% accuracy and exported the final model for deployment.

### Energy Consumption Forecasting with Explainability

[GitHub](#)

*Tools: Python, XGBoost, SHAP, Time Series Forecasting*

- Built a time-based regression model using hourly power consumption data.
- Used XGBoost and lag-based features to forecast next-hour usage.
- Explained model predictions using SHAP values to ensure transparency.

## CERTIFICATIONS

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AWS Machine Learning Foundations — AWS

Foundations of Data Science — IIT Madras

## EDUCATION

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### B.Tech in Computer Science and Engineering

2022 – 2026

Indus University, Ahmedabad

### BS in Data Science and Applications (Online)

2023 – Present

Indian Institute of Technology, Madras