

# SHIVAM KUMAR YADAV

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## SUMMARY

Data Science and Machine Learning professional with expertise in building end-to-end ML solutions, NLP applications, and production-grade MLOps pipelines. Experienced in developing predictive models, implementing CI/CD workflows, and leveraging generative AI technologies to solve complex business problems.

## SKILLS

Python, SQL

Scikit-learn, Pandas, NumPy, XGBoost, LightGBM, NLP, Generative AI

CI/CD Pipelines, Model Deployment, Version Control

Tableau, Matplotlib, Seaborn, Excel

Streamlit, Git, GitHub, VS Code, Jupyter Notebook

## EXPERIENCE

### Machine Learning Intern

Slash Mark (AICTE Collaboration)

Aug 2024 - Oct 2024

- Completed intensive virtual internship in Machine Learning, officially recognized by the All India Council for Technical Education (AICTE)
- Developed production-ready ML models with focus on real-world business applications
- Implemented end-to-end ML workflows including preprocessing, feature engineering, training, and deployment.

### Data Analytics Intern

Deloitte Australia (Forge Virtual Program)

2024

- Completed comprehensive job simulation in data analytics and forensic technology consulting
- Engineered interactive dashboards using Tableau to visualize complex datasets and communicate insights
- Conducted advanced data classification and analysis in Excel to support strategic business decisions.

## PROJECT

### Cryptocurrency Market Forecasting System

- Designed end-to-end forecasting pipeline for Bitcoin price prediction using Random Forest Regressor
- Achieved 99.4% R-squared score on test dataset through strategic feature engineering and model optimization.

### Financial Risk Analytics Platform

- Architected credit assessment system enhancing loan approval accuracy by 14%, achieving 78.3% test accuracy
- Implemented feature engineering techniques and systematic hyperparameter optimization through GridSearchCV.

## Regression Algorithm Benchmarking Study

- Executed comparative analysis of 13 regression algorithms across multiple performance metrics
  - Identified LassoRegression as top performer with R2-score of 0.915 and MAE of \$82,658.
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## EDUCATION

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### Bachelor of Technology

Chouksey Engineering College • 2025

### Higher Secondary (CBSE)

Burgess English Higher Secondary School • 2021

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## INVOLVEMENT

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### Commanding Officer

NSS Unit Chouksey Engineering College • 2024 - 2025

- Led 100+ volunteers across multiple community service initiatives, demonstrating leadership capabilities
  - Orchestrated five major events including four single-day camps and one week-long intensive program.
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## CERTIFICATIONS

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### Generative AI Professional

Oracle University

- Advanced certification in generative AI, LLMs, and prompt engineering.

### Data Science Professional

Oracle University

- Comprehensive program covering statistical analysis, ML algorithms, and practical implementation strategies.

### Data Analytics Job Simulation

Deloitte (Forage)

- Hands-on experience with Deloitte's analytics methodologies.

### AI Skills Passport

EY & Microsoft

- Proficiency in AI technologies and enterprise adoption strategies.

### NSS 'C' Certificate

CSVТУ

- National-level certification for community service excellence.

### Advanced AIML & Data Analysis Workshop

ISRO

- 7-day intensive workshop on AI/ML in space technology.
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