

Divya Kanaujiya

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Profile Summary

Data Science and Machine Learning postgraduate from IIT Jodhpur with hands-on experience in end-to-end ML pipelines, time-series anomaly detection, boosting algorithms, and deep learning models. Skilled in Python, SQL, PyTorch, TensorFlow, Feature engineering, Model evaluation, and Deployment. Seeking entry-level Data Scientist or Machine Learning Engineer roles.

Education

Indian Institute of Technology Jodhpur

2024–2026

M.Tech in Data & Computational Science

Master's Thesis: Obstacle-Aware Optimum Circle Formation Using Autonomous Robots

Indian Institute of Technology Jodhpur

2022–2024

M.Sc in Mathematics

Experience

Teaching Assistant – Department of Mathematics, IIT Jodhpur

2024

- Assisted in statistical modeling, data analysis, and Python-based problem-solving sessions
- Mentored students on probability, regression analysis, and numerical methods
- Strengthened data analysis and technical communication skills

Projects

Sensor Anomaly Forecasting

- Designed and implemented an end-to-end machine learning pipeline including data ingestion, pre-processing, feature engineering, model training, and evaluation
- Built ML models achieving **89.6% accuracy**, improving anomaly detection reliability
- Performed feature engineering on time-series sensor data
- Tools:** Python, SQL, MongoDB, Scikit-learn

Boosting Algorithms for Marketing Optimization

- Developed Gradient Boosting and AdaBoost models on imbalanced datasets
- Optimized models using F1-score, AUC, and hyperparameter tuning
- Tools:** Python, TensorFlow, Flask

Data-Free Knowledge Distillation using Conditional GANs

- Implemented adversarial knowledge distillation using synthetic data
- Achieved **72% accuracy** on CIFAR-100 using ResNet-18
- Reduced student model size by **20%** while retaining performance
- Tools:** PyTorch, GANs, CNNs

Technical Skills

- Programming:** Python, SQL, R
- Machine Learning:** Regression, Classification, Boosting, Feature Engineering, Model Evaluation
- Deep Learning:** PyTorch, TensorFlow, CNNs, GANs
- Tools:** Git, Docker, Linux, VS Code, MongoDB

Achievements

- GATE 2024 Qualified
- CampusX Data Science Mentorship Program