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### EDUCATION

Indian Institute of Technology Jodhpur

Jodhpur, Rajasthan

B. Tech in Artificial Intelligence and Data Science: CGPA 8.59

2023 - 2027

Uttam School Delhi NCR

Class XII (2023): 96.8%, Class X (2021): 99.4%

EXPERIENCE

## AI/ML Intern at GeeksforGeeks

Jan 2025 – Current

Machine Learning, Deep Learning, Data Science, Technical Writing, Algorithmic Analysis

Noida, NCR

- Optimized complex ML pipelines using scikit-learn, PyTorch, and TensorFlow; enhanced model accuracy and generalization across diverse datasets.
- Published 100+ AI articles (CNNs, Transformers, NLP) with 100K+ reads and high engagement.
- Benchmarked 8+ ML models on F1-score, AUC, latency to evaluate use-case efficiency.

#### Projects

## ISRO: High-Resolution Elemental Mapping on Lunar Surface

Oct 2024 – Dec 2024

Report Link — Python, MySQL, Neo4j, Power BI, Machine Learning Models

ISRO

- Developed a real-time lunar data pipeline for the Indian Space Research Organisation (ISRO) using gridding, interpolation, and deterministic Kriging to address spatial gaps.
- Extracted elemental ratios from XRF spectral data and identified probable water sites, volcanic regions, ISRU sites, and impact features.
- Replaced CSV workflows with MySQL, enabling faster ingestion and sub-8-second heatmap updates.
- Compiled a report with statistical graphs, elemental maps, and data pipelines.

NeuroLearn: Graph-based Context Aware Course Recommendation Engine

Jan '25 – May '25

Python, FastAPI, React.js, Next.js, Neo4j, PostgreSQL, NLP, Machine Learning

IIT Jodhpur

- Developed a Course recommendation system using **collaborative filtering**, **matrix factorization**, and **transformer-based sentiment models** to suggest optimized learning paths based on user behavior & feedback.
- Integrated Neo4j & FastAPI to enable real-time, scalable recommendations via a React.js interface.

#### Smart Money: Smart Financial Tracking and Engagement Platform

Jul '24 – Aug '24

Website Link — React.js, Node.js, Express.js, MongoDB, Firebase, JWS, Gemini API, Media APIs

 $IIT\ Jodhpur$ 

- Built a platform to track **real-time transactions** and calculate **financial health scores** using the **Gemini API**, helping users better understand and manage their spending habits.
- Secured backend with **JWT login**, **Firebase user flow** & organized data pipelines for high performance.
- Automated content scheduling to Instagram/YouTube with dashboard for engagement & finance insights.

### AI Research Paper Evaluation and Recommendation System

Jan '25

Report Link — Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, NLP, Pathway Framework

IIT KGP

- Achieved 98% accuracy at IIT Kharagpur Data Science Hackathon 2025 by applying NLP and data analysis to classify research papers as "Publishable" or not.
- Built a recommendation system to suggest conferences with justification using the Pathway Framework.

## TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, SQL, NoSQL, Cypher(Neo4j)

Tools: AWS, Scikit-Learn, Numpy, Matplotlib, Scipy, Pytorch, PowerBi, OpenCV

# INVOLVEMENTS AND ACHIEVEMENTS

Top 5% (A/A-): Data Structures and Algorithms (DSA); Machine Learning (AI&ML); Maths for Computing; Probability, Statistics and Stochastic Processes (PSSP).

Bronze medal in Inter-IIT Tech Meet 13.O at IIT Bombay in problem statement by ISRO.

Quarter Finalists in badminton at 56th Inter IIT Sports at IIT Bombay

Assistant Head, Entrepreneurship Cell - IIT Jodhpur; Executive, Department of Computer Science - IITJ Core Member, Badminton Society, RAID (AI society) - IIT Jodhpur