

# Shakil Ansari

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## About

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Enthusiastic data scientist with roots in Mechatronics and Life Sciences, combining systems thinking with a passion for machine learning in NLP, time series, and deep learning to solve real-world problems.

## Projects

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### Abstractive Dialogue Summarization using Transformers [\[Try Live Demo\]](#)

- Fine-tuned FLAN-T5 on the DialogSum dataset to generate abstractive summaries from multi-turn dialogues using prompt-based sequence modeling.

### Domain-Specific NLP: Indian Recipe Generation [\[Try Live Demo\]](#)

- Developed a prompt-based NLP model for Indian recipe generation, mastering dataset preparation and fine-tuning for domain adaptation and text generation.

### Fake News Detection (GloVe + LSTM) [\[Try Live Demo\]](#)

- Classified headlines using word embeddings and deep learning.

### Lyrics Generator (RNN-LSTM) [\[Try Live Demo\]](#)

- Developed a character-level LSTM sequence model for generating diverse song lyrics.

### Movie Recommendation (IMDB) [\[Try Live Demo\]](#)

- Built a collaborative filtering system for personalized suggestions.

### Stock Forecasting (ARIMA/SARIMA): [\[Try Live Demo\]](#)

- Predicted stock trends using time series models with seasonal analysis.

### Stellar Object Classifier [\[Try Live Demo\]](#)

- Classified celestial objects using supervised ML models and neural networks on astronomical datasets.

## Experience

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### Data Science - Intern, First Quadrant Labs, [Remote] July 2025 – Sept 2025

- Developed ML models for fuel efficiency prediction (target MAE < 1.5) and stellar object classification (target accuracy > 90) using Python, scikit-learn, and TensorFlow. Created data visualizations and reports using Power BI and Excel to communicate insights and support model evaluation.

### Educator, Vidhyanjali Rising Point, Delhi June 2019 – Present

- Developed structured learning modules aligned with CBSE to enhance analytical thinking and performance.

### Research Trainee, Abyom SpaceTech and defense Pvt. Ltd. June 2022 – Aug 2022

- Performed collection and analysis of research papers and Planetary data on the topic of research

## Education

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### Guru Gobind Singh Indraprastha University, B-Tech [Mechatronics Engineering] Oct 2020 – June 2024

- GPA: 8.0/10.0

### Indira Gandhi National Open University, B.Sc - Life Sciences [Botany] July 2018 – Sept 2021

- GPA: 6.0/10.0

## Certifications

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Diploma in Data Science – Boston Institute of Analytics (BIA), 2025

IBM Data Science Professional Certificate (Coursera, 2025)

## Technologies

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**Programming Languages:** Python, R, JavaScript, SQL, HTML, CSS

**Technologies:** Jupyter Notebook, MySQL, Git, Power BI, Tableau, Excel(Advanced), Kaggle, Hugging Face

**Data Science:** Machine Learning, Deep Learning, NLP, Time Series, Prompt Engineering, Statistical Analysis, Python(scikit-learn, pandas, matplotlib, PyTorch, TensorFlow etc.), DSA