

# Sandeep Kumar

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**Summary** — Aspiring Data Scientist with practical experience in Machine Learning and Data Analysis. Gained hands-on expertise during a 6-month internship at Jupiter AI Lab, working with Python and its robust data libraries (Pandas, NumPy, Matplotlib, and Seaborn) for model building and EDA (Exploratory Data Analysis). Proficient in SQL, BI tools like Power BI, and Excel for effective data management and visualization.

## Skills

**Languages:** Python, Java, SQL  
**Libraries:** Pandas, NumPy, Matplotlib, ScikitLearn, Seaborn, Flask, TensorFlow  
**Generative AI:** Hugging Face Transformers, LangChain, Rag, Fine Tuning, FastAPI  
**Tools:** Git, Github, Power BI, Excel, Vs Code, Anaconda, Jupyter Notebook, Google Colab  
**Techniques:** ML, DL, Data Analysis, Model Building, EDA, Data Manipulation, Analyzing Large Datasets  
**Soft Skills:** Communication Skills, Presentation Skills, Hard-Working, Problem-Solving

## Experience

### Machine Learning Intern

Aug 2024 – Currently Working

Jupiter AI Lab

Onsite- Noida

- **Enhanced data visualization** by designing dynamic dashboards and reports in Power BI, which led to improved data interpretation and actionable insights.
- **Streamlined data workflows** Automating routine data extraction and cleaning processes, resulting in a 40 percent reduction in manual effort and increased efficiency.
- **Applied statistical techniques and machine learning algorithms** to analyze complex datasets, providing predictive insights and supporting strategic planning.
- **Gained hands-on experience** with model training, evaluation, and feature engineering, contributing to real-world projects and supporting data-driven decision-making.

## Education

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech IT	Rajkiya Engineering College, Azamgarh	AKTU	7.0 CGPA	2024
Senior Secondary	Bal Krishna I C Khatirpur, Ghazipur	UP Board	75.20%	2019
Matriculation	S R D A H S S Bhajayatilari, Ghazipur	UP Board	84.12%	2017

## Projects

### Online Written Examination System Using Machine Learning and Blockchain

Mar 2024

Major Project (B.tech)

- Implementing an Online Written Examination System using Blockchain and Machine Learning with the MERN stack ensures secure, tamper-proof exam records and intelligent evaluation.
- Blockchain guarantees data integrity, while ML algorithms enhance the evaluation process by providing smart analytics and personalized feedback.

### House Price Prediction

Aug 2024

Real Time Mini Project

Github

- **Data Preprocessing:** Experience with data cleaning, normalization, feature engineering, and handling missing values.
- **Model Selection and Evaluation:** Various regression algorithms (linear, ridge, lasso, decision trees, random forests, etc.) and evaluation metrics (MSE, RMSE, MAE, R-squared).

### Text Summrization Gen AI Project

Feb 2025

Mini Project

Github

- Developed a text summarization model using transformers like BART/GPT to generate concise summaries from long-form text.
- Fine-tuned a pre-trained transformer model on a custom dataset to improve summarization quality.
- **Model Evaluation:** Performed evaluation using ROUGE and BLEU scores to measure summarization accuracy.