



# Susanta Baidya

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Susanta2102 | Portfolio  
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## Summary

Aspiring AI professional pursuing an MSc in AI and Machine Learning, with a strong foundation in statistics and mathematics. Experienced in scalable ML models and data-driven solutions, proficient in Python, SQL, and ML frameworks. Eager to apply my skills in an AI/Data Science role or internship.

## Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
MSc(IT)	Indian Institute of Information Technology, Lucknow	7.50 (Current)	2023-2025
BSc(H)	Maharaja Bir Bikram College, Agartala	72%	2020-2023
Senior Secondary	Kendriya Vidyalaya, ONGC Agartala	80.6%	2020
Secondary	Kendriya Vidyalaya, ONGC Agartala	82.0%	2018

## Experience

- Climate Resilience Observatory (CRO) - Uttar Pradesh Government** *August 2024 - Present*  
*Data Science Intern* *Lucknow*
  - Developed an **Automated Lightning Tracking System** using **Streamlit** and **MySQL**. Integrated background task scheduling with **APScheduler** to fetch and store lightning strike data every 10 minutes for real-time monitoring.
  - Visualized lightning data with interactive maps using **Folium**, heatmaps, and detailed trend analysis charts with **Plotly**, facilitating enriched insights through **severity classification** and **weather data integration**.

## Projects

### Flight Fare Prediction Application

*Github*

- \* **Objective:** Built an interactive, user-centric Streamlit application for accurately forecasting flight ticket prices.
- \* **Outcome:** Successfully achieved an impressive 81% accuracy using advanced Random Forest Regression.
- \* **Technologies:** Python, Pandas, Data Warehousing, Database Management, CSV Processing, Kaggle Notebook

### DeepStock

*Github*

- \* **Objective:** Developed an advanced predictive model to accurately forecast future stock prices using innovative and efficient deep learning techniques, applying LSTM networks for complex time series analysis.
- \* **Outcome:** Successfully built, trained, and tested a robust model capable of accurately predicting stock price trends and patterns, demonstrating strong proficiency in financial modeling and time series forecasting.
- \* **Technologies:** Python, TensorFlow, LSTM, Data Visualization, Machine Learning, Time Series Analysis

## Skills

- Programming Skills:** Python (NumPy, Pandas, scikit-learn, TensorFlow), SQL, SPSS, LaTeX
- Data Science & Machine Learning:** Exploratory Data Analysis, Predictive Modeling, NLP, DBMS, Deep Learning, Supervised, Unsupervised, Reinforcement Learning, Time Series Analysis, Regression Analysis.
- Tools & Technologies:** Advanced Excel, VS Code, MongoDB, Git, Power BI, Matplotlib, Seaborn.
- MLOps Skills:** Develop MLOps pipelines with Git, Docker, CI/CD; use MLFlow and DVC for versioning; deploy on AWS SageMaker and Hugging Face; automate with Apache Airflow; monitor with Grafana and PostgreSQL.

## Key Courses

- Career Essentials in Generative AI:** Trained in AI fundamentals, applications, deep learning, and ethics.
- Complete MLOps Bootcamp:** Gained hands-on experience with 10 end-to-end projects, focusing on deployment.
- Python Bootcamp (Udemy):** Mastered Python fundamentals, OOPs, and data analysis

## Achievements

- IIT JAM 2023:** Achieved All India Rank (AIR) 218 out of 3563 candidates in Mathematical Statistics.
- Hackathons:** Placed 171st out of 3000+ participants in CodeSmash 2.0 with a score of 97/100.
- Kaggle Competitions:** Ranked in the top 2% in datasets, top 3% in notebooks, and achieved a notable position in the "The Learning Agency Lab - PII Data Detection" competition overall performance.
- KVS National Under-17 Chess Championship (2019):** Secured a national ranking of 63 out of 158 participants.