

Hemant Shankar

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PROFESSIONAL SUMMARY

A recent graduate in Integrated M.S in Mathematics and Computing from NIT Agartala, with a CGPA of 8.47. Skilled in data science, machine learning, and research-driven problem solving. Proficient in Python, R, MATLAB, and SQL. Cleared GATE DSAI for two consecutive years. Actively seeking opportunities to apply analytical and technical skills in real-world projects.

EDUCATION

- **Integrated Masters of Science(MS) in Mathematics and Computing** 2020-25
National Institute of Technology Agartala CGPA: 8.47
Data Structures & Algorithms, Financial Mathematics, Artificial Intelligence, Linear and Abstract Algebra, Decision Theory and Computational Statistics, Machine Learning, Probability and Statistics

PROFESSIONAL EXPERIENCE

- **Machine Learning Intern** May 2023 - July 2023
Aryabhata Research Institute of Observational Sciences(ARIES), Nainital Onsite
 - Applied and compared **5+** machine learning models for **regression and clustering** on real-world astronomical datasets, improving research insights and accuracy by over **25%**.
 - Developed a modular preprocessing pipeline, reducing .Mcs file processing time by **95%**.
 - Built a custom clustering model for the HEPL dataset that enabled the discovery of hidden patterns, assisting researchers in hypothesis generation and interpretation.
- **Freelance Prompt Training Associate** Jan 2024 - October 2024
Outlier AI Remote
 - Curated and structured over **15,000+** input-output prompt pairs to enhance the performance of AI models on mathematical and computational tasks.
 - Improved prompt clarity and consistency, resulting in a **15–20%** boost in model response accuracy based on internal evaluation metrics.
 - Maintained version control and documentation for multiple prompt datasets, enabling seamless updates and reproducibility.

PERSONAL PROJECTS

- **Fly India** | [Link](#) April 2024 - May 2024
Dashboard of Indian Flight Analysis
 - * Performed EDA on **1,00,000+** flight entries across **6** metro cities to detect fare spikes and seasonal price shifts.
 - * Built a comparison tool and integrated it with **Power BI** to visualize airline trends and pricing dynamics.
 - * **Tech Stack:** Python, Pandas, Seaborn, Matplotlib, Power BI, Git
- **Covid-19-India Analyzer** | [Link](#) Sep 2023 - Oct 2023
Dashboard for covid-19-India Analysis
 - * This project aims to perform Exploratory Data Analysis on the Covid-19 data of India in 2020.
 - * Implemented using libraries like **Numpy**, **Pandas**, **Seaborn**, and **Matplotlib** for plotting graphs.
 - * The Dashboard of the analysis is made by using **Tableau**.
 - * **Technologies:** Python, Jupyter Notebook, Tableau, and Git.
- **Netflix Analyzer** | [Link](#) Sep 2023 - Sep 2023
An analysis on Netflix's Movies and Web Series
 - * Analyzed over **8,000** Netflix titles using SQL queries to reveal genre distribution, release trends, and content gaps.
 - * Created analytical dashboards for platform content strategy insights.
 - * Provided insights into the type and quality of Netflix content.
 - * **Tech Stack:** MySQL, Git.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, SQL, MATLAB
Framework & Libraries: PyTorch, Scikit-learn, LSTM, CNN, RNN, NumPy, Pandas, Matplotlib, Seaborn
Data Analysis & Visualization Tools: Jupyter Notebook, Power BI, Tableau, MS Excel, Plotly
Databases & Storage: MySQL, PostgreSQL, Google BigQuery
Tools & Platforms: Git, GitHub, VS Code, Google Cloud Platform (GCP), Streamlit, Math
Core Skills: Data Science, Statistical Analysis, Data Preparation, Explor. Data Analysis (EDA), Machine Learning
Soft Skills: Communication Skill, Problem-Solving, Story Telling, Presentation

POSITIONS OF RESPONSIBILITY

–**Head of Operation and Strategies** | Entrepreneurship Cell, NIT Agartala

Aug 2021 - Dec 2023

- * Hosted more than 10 **speaker sessions, workshops, and competitions** to foster a startup ecosystem in Northeast.
- * Created a significant impact on over **5,000 people** by providing them an ecosystem for startup growth.

ACHIEVEMENT

- Cleared **GATE DSAI for two consecutive years 2024-2025** with **GATE Score of 519**
- **Runner-Up** position at IGNITE'21 (Startup Ideation Challenge) among 100+ participants from Northeast India.