

Hemant Shankar

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 [Github](#)

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PROFESSIONAL SUMMARY

It appears you have not provided the current LaTeX section in the professional summary. Could you please provide that so I can assist you better?

EDUCATION

- **Integrated Masters of Science(MS) in Mathematics and Computing** December 2020 - May 2025
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 updates and reproducibility.

PERSONAL PROJECTS

- **Weather Wizard** | [Notebook Link](#) March 2025 - April 2025
A Multilevel LSTM model for weather prediction
 - * Developed a time-series forecasting model using **Multilevel LSTM** and **TensorFlow**, achieving over **97%** prediction accuracy on structured computational datasets.
 - * Engineered a preprocessing pipeline to transform and scale **1,00,000+** data points, improving model training stability and reducing input variance by **30%**.
 - * Created visualization tools using Matplotlib to analyze predictions across 50+ time steps, enabling better interpretability and performance tracking.
 - * **Tech Stack:** Python, Tensorflow, Scikit-learn, Pandas, Time Series, Matplotlib, Plotly, Git
- **Fly India** | [Notebook Link](#) April 2024 - May 2024
Dashboard of Indian Flight Analysis
 - * Conducted EDA on flight data from six metro cities to uncover fare patterns and airline trends.
 - * Built a flight comparison tool and interactive Power BI dashboard to help users make informed travel decisions.
 - * Utilized Python libraries like NumPy, Pandas, Seaborn, and Matplotlib for analysis and visualization.
 - * **Technologies:** Python, Jupyter Notebook, PowerBI, and Git.
- **Netflix Analyzer** | [Repo 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

- Programming Languages:** Python, R, SAS, SQL, Java, C++, MATLAB (for Mathematical Programming)
- Software and Tools:** MS Office, Google Suite, LaTeX, MathWorks (for Mathematical Computation)
- Operating Systems:** Windows, Linux
- Other Skills:** Machine Learning, Data Analysis, Statistical Modeling, Mathematical Modeling, Problem Solving
- Interests:** Algebra, Calculus, Statistics, Number Theory, Cryptography

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.