Aditya Vardhan

adityavardhan225@gmail.com □(+91)9973061764□ linkedin.com/in/aditya-vardhan-9564aa223



Education

Degree	Institute	CGPA/Percentage	Year
B.Tech. Major in Mathematics &	Rajiv Gandhi Institute of Petroleum Technology, Amethi, Uttar	8.57 (Current)	2021 - 2025
Computing	Pradesh		
B.Tech. Minor in	Rajiv Gandhi Institute of Petroleum Technology, Amethi, Uttar	6.00 (Current)	2021 - 2025
Business Analytics	Pradesh		
Senior Secondary	Delhi Public School, Bokaro, Jharkhand	89.80%	2020
Secondary	Loyola Convent School, Ranchi, Jharkhand	94.8%	2018

Experience

DRDO INTERN

Integrated Test Range, Chandipur

May 2023- July 2023

→Worked on Position finding of Air-bone object with Dynamic Electro Optics using Triangulation.

Projects

Deep learning solver for solving advection-diffusion equation in comparison to finite difference method.

Rajiv Gandhi Institute Of Petroleum Technology

January 2023 - Presen

- →For solving the 2D unstable advection-diffusion equation in atmospheric **numerical modeling**, FDM were compared to a **deep learning-based solver**.
- →The accuracy, stability, and interpolation of the deep learning-based solver are superior to those of the **FDM-based approaches**.
- →Emphasizes the **DNN solver's** potential as a substitute for FDM-based solvers in atmospheric **numerical modeling**.

Model to optimize bus routes data of Bengaluru Metropolitan Transport Corporation:

CNI Hackathon Organized by IISc Bangalore

September 2022 - December 2022

- → Employed Python and advanced data science methods to examine extensive BMTC bus records, processing over 6 million data points.
- →Conducted rigorous data cleaning, preprocessing, and exploratory analysis, resulting in an optimized model achieving over 80% accuracy despite data noise.
- → Utilized machine learning techniques including K-means clustering to categorize bus routes based on similar travel patterns, enhancing route management and operational efficiency for BMTC.

Achievements

- Secured a position among top 11 candidates out of 600 in CNI hackathon conducted by IISc Bangalore.
- Secured a position among top 6% candidates out of 0.25 million students in Jee, Advanced
- Booked a place among top 2% candidates out of 1.1 million students in Jee, Mains

Skills

- Data Science Skills: Python, NumPy, Pandas, Matplotlib, Scikit-Learn, SQL, Tableau, MongoDB
- Machine Learning Skills: TensorFlow, Keras, Supervised Learning, Unsupervised Learning
- Mathematics Skills: Probability, Applied Statistics, Linear Algebra, Calculus, Numerical Analysis, Discrete Mathematics, Elementary Number Theory
- Soft Skills: Effective Communication, Problem Solving, Time Management, Adaptability

Involvement

Teaching Volunteer

GyanArpan

• Through teaching I committed my time to en

August 2022 - Present

• Through teaching, I committed my time to empowering underprivileged students.