

ADITYA PANDEY

Graduate, Department of Chemistry

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ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CPI/%
2021 - 2025	B.S (Chemistry)	Indian Institute of Technology, Kanpur	6.8/10.0
2020	CBSE(XII)	Ryan International School, Mumbai	91.8 %
2018	CBSE(X)	St. Joseph High School, Mumbai	93.8 %

SCHOLASTIC ACHIEVEMENTS

- Secured an **AIR 6264** in **JEE-Advanced 2021** amongst **2.5 Lakh+** candidates and **AIR 7386** in **JEE-Mains 2021** (2021)
- Qualified for the **second round of Data Science Hackathon**, conducted by **IIT Kharagpur**, showcasing analytical skills (2022)
- Received **Bronze medal** in **International Olympiad of Science (IOS)** conducted by **Silverzone**, displaying scientific aptitude (2019)

KEY PROJECTS

- Uber’s Machine Learning Insight** | Self Project | 🌐 (May ’24 - Jul ’24)

Objective	-Designed and Deployed <b>machine learning model</b> to predict surge pricing from weather data, enhancing accuracy
Strategy	-Applied <b>LabelEncoder</b> and <b>SMOTE</b> to transform features, generating synthetic samples, improving data quality for training -Implemented <b>Random Forest Classifier</b> to develop a robust model for accurately predicting Uber surge price multipliers
Impact	-Achieved a test <b>accuracy of 88%</b> and a validation <b>F1 score of 0.91</b> , showcasing strong model performance and reliability

- MathData-Empowering Data Science with Mathematical Tools** | Stamatics IIT Kanpur ((May ’23 - Jul ’23)

Objective	-Developed <b>SARIMAX</b> -based models to improve Netflix stock price prediction accuracy by <b>15%</b> over a <b>6-month</b> timeframe
Approach	-Cleaned <b>10,000+</b> data points, ran <b>ADF tests</b> , and used <b>Seaborn &amp; Matplotlib</b> to visualize seasonal and trend components
Impact	-Enhanced anomaly detection by <b>20%</b> using distribution fitting, <b>QQ plots</b> , and advanced statistical time series analysis

- Regression Analysis** | Econs Society IIT Kanpur ((Dec ’22 - Feb ’23)

Objective	-Developed a ridge regression model in Python to minimize overfitting by <b>20%</b> and improve generalization on structured datasets
Approach	-Improved accuracy by <b>12%</b> by reducing <b>RMSE</b> via preprocessing, feature normalization, and handling missing data effectively
Impact	-Boosted model stability by <b>10%</b> using cross-validation, achieving consistent <b>RMSE</b> across training and validation sets

VIRTUAL EXPERIENCES

- Accenture North America Data Analytics and Visualization Job Simulation** | Forage (May ’24 - Jun ’24)

Objective	-Conducted a data analysis simulation for a <b>social media client</b> ,to deliver strategic, insight-driven recommendations
Approach	-Cleaned, modeled, and analyzed <b>7 datasets</b> to uncover content trends and support data-informed decision-making
Outcome	-Prepared a PowerPoint deck and video presentation to communicate <b>key insights</b> to the client and internal stakeholders

- PwC Switzerland Power BI Job Simulation** | Forage ((Jun ’24 - Jul ’24)

Objective	-Developed a <b>Power BI</b> job simulation to understand client needs and refine data visualization and reporting strategies
Approach	-Built <b>dashboards</b> to visualize HR data, identify <b>KPIs</b> , and align insights with specific client-driven requirements
Outcome	-Leveraged analytical skills to assess <b>HR data</b> and identify root causes of gender imbalance, focusing on gender-related KPIs

POSITIONS OF RESPONSIBILITY

- Organiser, Media and Publicity** | Udghosh, IIT Kanpur (Jun ’23 - Jun ’24)

Leadership	-Spearheaded a <b>three-tier team</b> of <b>30+</b> Senior Executives managing publicity, content and media associations for the festival
Initiatives	-Streamlined social media strategy and coordinated event execution to ensure smooth operations across high-footfall activities ( <b>60K+ audience</b> )
Impact	Maximized festival outreach by <b>40%</b> through event publicity, covering <b>Pronites, sports matches, and closing ceremonies</b>

- Project Mentor** | Google Developer Student Club, IIT Kanpur (Dec ’23 - Feb ’24)

Leadership	-Led a hands-on <b>time series forecasting</b> project, mentoring <b>30+ students</b> through weekly sessions and collaborative learning
Initiatives	-Designed and delivered tutorials on core statistical concepts like <b>Covariance, Hypothesis Testing, and Autocorrelation</b>
Impact	-Enabled students to apply <b>MA, AR, ARMA, and ARIMA</b> models on real datasets using Python and Statsmodels

TECHNICAL SKILLS

- Programming Languages:** C, C++, Python, R, MATLAB, SQL
- Software and Libraries:** MS Excel, MS Word, Canva, Numpy, Pandas, Stata, Matplotlib, Seaborn, Pyspark, Jupyter, PowerBI

RELEVANT COURSEWORK

Linear Algebra & ODE(MTH-102)	Real Analysis & Calculus(MTH-101)	Fundamentals of Computing
Introduction to Electronics	Time Series Analysis	Machine Learning
Theory of Statistics	Probability Theory	Statistical & AI Techniques in Data Mining
SQL for Data Science*	Econometrics	Data Visualisation using Python*

EXTRA-CURRICULAR ACTIVITIES

Managerial	-Managed the contents and media handles of <b>Antaragni IITK</b> , ensuring smooth coordination of events for <b>75K+ audience</b> -Organized Mathemania ( <b>1000+ participants</b> ) and Project-2023 ( <b>24 ML/stats projects</b> ) as Executive at Stamatics IITK
Social Work	-Volunteered for the conduction of <b>flagship events</b> and sessions for <b>E-Cell and Finance and Analytics Club</b> -Managed content for <b>Prutor IITK</b> , to provide free, high-quality JEE and NEET preparation resources to indigent students
Cultural	-Secured <b>2nd</b> position in Dance and <b>1st</b> in Galaxy Parade at <b>Intra-IIT</b> cultural fest <b>Galaxy’23</b> , competing among <b>5</b> pools -Received <b>Silver Medal</b> in “ <b>Pakwada</b> ” event by Hindi Sahitya Sabha for outstanding contribution to literary activities
Sports	-Represented my pool in <b>Inferno’24</b> , the <b>Intra-IIT sports fest</b> , and secured <b>2nd place</b> in Frisbee among <b>5</b> competing pools -Demonstrated teamwork, sportsmanship, and competitive spirit as a participant in the <b>Badminton, &amp; Volleyball leagues</b>