

# Manoj Chandra

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## EDUCATION

BSc, Mathematics (Honours) | University of Delhi, New Delhi

Jun 2019 – Jul 2022

Grade: First-Class Honours

- *Coursework:* Linear Algebra, Real Analysis, Matric Spaces, Group Theory, Ring Theory, Complex Analysis, Calculus, Partial Diff. Eqn., Multivariable Calculus, Discrete Mathematics, LaTeX & HTML, C++, Computer Algebra Systems and Related Software (Mathematica, MATLAB, R Programming).

BTech, CSE | Indraprastha Institute of Information Technology, Delhi

Jul 2017 – Mar 2018

Class XII (High School Certificate) | Manish Pub. Sr. Sec. School, Jaipur

Grade: First-Class Honours with Distinction in Mathematics, Physics, Chemistry

- **A\*** - English, Physics, Chemistry; **A** - Mathematics

## WORK EXPERIENCE

AI Trainer – Mathematics Expertise | Outlier (Part-time, freelance)

Oct 2024 – Dec 2024

- Assessed and evaluated the factuality and relevance of AI-generated mathematical content, ensuring high standards of accuracy.
- Crafted and answered complex mathematics-related questions to improve AI model comprehension and response quality.
- Ranked and provided detailed feedback on AI responses, focusing on precision and applicability in real-world mathematical scenarios.

Tech Intern, Data Science and Business Analytics | The Sparks Foundation

Jun 2024 – Jul 2024

- Demonstrated expertise in supervised and unsupervised machine learning by designing and assessing linear regression and K-means clustering models.
- Created detailed visualisations, including scatter plots and regression lines, to effectively present data insights and model results.
- Engaged in peer reviews and supported fellow interns, promoting a collaborative and supportive internship experience.

Mathematics Tutor | Self-employed

Aug 2018 – Present

- Orchestrated engaging mathematics lessons for a cohort of 80+ high school students, resulting in a 25% improvement in overall grades and a 100% result in the finals.
- Mentored and empowered all 80+ students to master problem-solving skills in mathematics through tailored coaching sessions, improving overall performance and increasing self-confidence levels.

## SKILLS & TOOLS

Programming Languages: Python, R Programming, MySQL, C, C++, HTML, CSS.

Tools: Power BI, Pandas, NumPy, Sci-kit Learn, Mathematica, LaTeX, Jupyter Notebook, SQL Server, Azure, Database Management System, Tableau, Microsoft Excel, Git, GitHub.

Other skills: Photography, communication, Teamwork, analytical and problem-solving, and leadership.

## CERTIFICATIONS

IBM: Artificial Intelligence Fundamentals.

CISCO: Data Analytics Essentials, Introduction to Data Science.

Edx: Fundamentals of Data Visualization with Power BI, Introduction to SQL.

Forage (Virtual Job Simulations): British Airways Data Science, BCG X Data Science, BCG GenAI, Accenture Data Analytics and Visualization.

Udemy: Complete A.I. & Machine Learning, Data Science Bootcamp, Python for Data Science and Machine Learning Bootcamp.

Coursera: Python Basics.

LinkedIn: SQL Essential Training, Learning Excel for Data Analysis.

## PROJECTS

### Customer Churn Prediction Model Development and Analysis

Dec 2024

- Completed a customer churn analysis simulation for BCG X, demonstrating advanced data analytics skills, identifying essential client data and outlining a strategic investigation approach.
- Conducted efficient data analysis using Python, including Pandas and NumPy. Employed data visualisation techniques for insightful trend interpretation.
- Completed the engineering and optimisation of a random forest model, achieving an 85% accuracy rate in predicting customer churn.
- Completed a concise executive summary for the Associate Director, delivering actionable insights for informed decision-making based on the analysis.

### British Airways Customer Reviews Analysis and Buying Behaviour Prediction Model

May 2024

- Completed a simulation focussing on how data science is a significant component of British Airways' success.
- Scraped and analysed customer review data to uncover findings.
- Built a predictive model to understand factors that influence buying behaviour.

### Predictive Financial Market Forecasting and Trend Analysis

Apr 2024

- Demonstrated expertise using NumPy and Pandas libraries for data analysis in 10 years of worth bank finance data and visualisation using Matplotlib, Seaborn, Sci-kit learn, Plotly and Cufflinks Python libraries, enabling effective communication of data insights.
- Applied advanced machine learning algorithms including Linear Regression, KNN, Clustering, NLP, Neural Nets and Deep Learning, and SVM, applying them to real-world problems and moving averages to interpret market trends and identify trading opportunities.

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## EXTRACURRICULAR ACTIVITIES

### Event Planning and Execution | ODYSSEY'18, IIIT-DELHI

Sep 2017 – Jan 2018

- Volunteered in organising IIIT-Delhi's Cultural Fest in 2018.
- Directed the planning and implementation of IIIT-Delhi's Cultural Fest 2018, overseeing a team of 60 volunteers to manage 20+ events and activities, attracting 1000+ attendees.

### UPSC Civil Services Examination Course | Self-learning

Sep 2017 – Sept 2024

*Coursework:* Ecology & Environment, Science & Technology, Geography (India & World), History (India & World), Polity & Constitution of India, International Relations, Ethics, Governance, Security & Disaster Management, Social Justice.

- Undertook a career transition to prepare for the UPSC Civil Services Examinations, completed a foundational course at SRIRAM's IAS institute, and then continued with self-directed learning.

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## AWARDS AND ACHIEVEMENTS

### INSPIRE – SHE SCHOLARSHIP | DEPARTMENT OF SCIENCE & TECHNOLOGY, Govt. of India

- Provisionally selected for the INSPIRE Scholarship for Higher Education (INSPIRE-SHE).
- INSPIRE Scholarship is offered based on Class 12th standard examination results (top 1%) of the respective Boards exams.

2<sup>nd</sup> Rank Award (Class 11<sup>th</sup>, and 12<sup>th</sup>) | Manish Sr. Sec. School

3<sup>rd</sup> Rank Award (Overall, 12<sup>th</sup> class) | Manish Sr. Sec. School