

# Manoj Chandra

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## EDUCATION

MSc, Applied Mathematics   Delhi Technological University (DTU), New Delhi	Jul 2024 – Present
BSc, Mathematics (Honours)   University of Delhi, New Delhi	Jun 2019 – Jul 2022
<ul style="list-style-type: none"><li>Coursework: Linear Algebra, Real Analysis, Matric Spaces, Group Theory, Ring Theory, Complex Analysis, Calculus, Partial Diff. Eqn., Multivariable Calculus, Discrete Mathematics, LaTeX &amp; HTML, C++, Computer Algebra Systems and Related Software (Mathematica, R Programming).</li></ul>	
BTech, Computer Science Engineering   Indraprastha Institute of Information Technology, Delhi	Jul 2017 – Mar 2018

## WORK EXPERIENCE

Data Science and Business Analytics Intern   The Sparks Foundation	Jun 2024 – Jul 2024
<ul style="list-style-type: none"><li>Demonstrated expertise in both supervised and unsupervised machine learning by designing and assessing linear regression and K-Means clustering models.</li><li>Created detailed visualizations, including scatter plots and regression lines, to effectively present data insights and model results.</li><li>Engaged in peer reviews and supported fellow interns, promoting a collaborative and supportive internship experience.</li></ul>	
Mathematics Tutor   Aaroh Institute of Mathematics	Nov 2018 – Mar 2019
<ul style="list-style-type: none"><li>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.</li><li>Mentored and empowered all 80+ students to master problem-solving skills in mathematics through tailored coaching sessions, resulting in improvement of overall performance in test scores and increased self-confidence levels.</li></ul>	

## TECHNICAL SKILLS

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

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

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

## CERTIFICATIONS

Fundamentals of Data Visualization with Power BI | DavidsonX (Course in progress)  
Introduction to Data Science | CISCO  
Data Analytics Essentials | CISCO  
British Airways Data Science Job Simulation | Forage  
BCG GenAI Job Simulation | Forage  
Accenture Data Analytics and Visualization Job Simulation | Forage  
Python for Data Science and Machine Learning Bootcamp | Udemy

## PROJECTS

<a href="#">Finance Analysis</a>	Mar 2024 – Apr 2024
<ul style="list-style-type: none"><li>Demonstrated expertise using NumPy and Pandas libraries for data analysis in 10 years of worth banks finance data and visualisation using Matplotlib, Seaborn, Sci-kit learn, and Plotly python libraries, enabling effective communication of data insights.</li><li>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.</li></ul>	
<a href="#">British Airways Customer Reviews Analysis</a>	May 2024
<ul style="list-style-type: none"><li>Completed a simulation focussing on how data science is a critical component of British Airways success.</li><li>Scraped and analysed customer review data to uncover findings.</li><li>Built a predictive model to understand factors that influence buying behaviour.</li></ul>	
<a href="#">GenAI-powered Chatbot</a>	April 2024
<ul style="list-style-type: none"><li>Developed an AI-powered financial chatbot as a part of BCG's GenAI Consulting team.</li><li>Gained experience in Python programming, including the use of libraries such as pandas for data manipulation.</li><li>Integrated and interpreted complex financial data from 10-K and 10-Q reports, employing rule-based logic to create a chatbot that provides user-friendly financial insights and analysis.</li></ul>	

## ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

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

Sep 2017 – Jan 2018

- Volunteered in organizing IIIT-Delhi's Cultural Fest 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 | Sriram's IAS Institute

Jun 2022 – Present

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

- Personality enhancement, fine-tuned patience, persistence, and accountability.
- Developed neutral perspective shaping myself into a forward-thinking individual.