

Manoj Chandra

New Delhi, India | 09785017939 | manojchandra910@outlook.com | [LinkedIn](#)

EDUCATION

Ramjas College, University of Delhi

Jul 2019 – Jul 2022

BSc (Hons), Mathematics

- Key Modules: Probability, Statistics, Mathematical Finance, Discrete Mathematics, Calculus, Linear Algebra, Mathematical Modelling, Differential Equations, Economics, C++, and R programming.

Indraprastha Institute of Information Technology (IIIT Delhi)

Jul 2017 – Mar 2018

BTech, Computer Science Engineering

EXPERIENCE

Outlier AI

Oct 2024 – Dec 2024

AI Trainer – Mathematics Expertise (Freelance)

- 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.

The Sparks Foundation

May 2024 – Jul 2024

Data Science and Business Analytics Intern

- 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.

SKILLS AND INTERESTS

- Programming Languages: Python, R, C++, Mathematica, LaTeX, SQL (MySQL), HTML, CSS.
- Packages: NumPy, Pandas, SciPy, Seaborn, Matplotlib, Scikit-learn.
- Data Modelling: Statistical Analysis, Linear and Logistic Regression, Naive Bayes, Latent Semantic Analysis, Document Mining, Logarithmic model, Random Forest, SVM, Decision Tree, KNN, Clustering.
- Data Visualisation: Excel (Pivot tables, Power Query, XLOOKUP, VLOOKUP), Google Sheets, Power BI, Tableau.
- Other: Photography, communication, Teamwork, analytical and problem-solving, and leadership.

PROJECTS

Weather Forecasting Web Application - [WeatherApp](#)

- Developed a weather forecasting web application using Django, integrating OpenWeatherMap API to display real-time weather data with a clean, user-friendly interface.

Customer Churn Prediction Model Development and Analysis

- 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 - [GitHub](#)

- 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 - [GitHub](#)

- 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.

EXTRA-CURRICULAR ACTIVITIES

CERTIFICATES

- Data Analytics Essentials, CISCO
- AI Fundamentals, IBM
- Python for Data Science and Machine Learning Bootcamp, Udemy
- SQL Essentials, LinkedIn Learning
- British Airways Data Science Job Simulation, Forage
- BCG GenAI Job Simulation, Forage

Odyssey'18, IIIT DELHI

Jan 2018

Event Planning and Execution

- 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.

Sriram's IAS Institute

Jun 2022 – Sep 2024

UPSC Civil Services Examination Course

- *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.

AWARDS & ACHIEVEMENTS

DEPT OF SCIENCE & TECHNOLOGY, GOVT. OF INDIA

INSPIRE-SHE SCHOLARSHIP, 2015

- 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.