

# Aditya Raj

LinkedIn: [linkedin.com/in/aditya-raj03](https://www.linkedin.com/in/aditya-raj03)

Email: [adityarajsingh1467@gmail.com](mailto:adityarajsingh1467@gmail.com)

GitHub: [github.com/AdityaRaj-03](https://github.com/AdityaRaj-03)

Mobile: +91-9693850044

## SKILLS

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- **Languages:** Java, C, C++, Python
- **Frameworks:** HTML, CSS
- **Tools:** MySQL
- **Soft Skills:** Team Worker

## PROJECTS

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### Sentiment Analysis Using NLP

Aug 2023

**Project Description:** Developed a sentiment analysis model to classify customer reviews from a restaurant's Facebook page into positive or negative sentiments, enabling data-driven decision-making to improve service quality.

**Key Responsibilities:**

- Collected real-time customer reviews from social media using web scraping and API integration.
- Processed and analysed textual data using Natural Language Processing (NLP) techniques.
- Provided insights to help the restaurant proactively address negative feedback and enhance customer experience.

**Technologies Used:** Python, NLP

### Exploratory Data Analysis on E-Commerce Sales Data

Sept 2024

**Project Description:** Conducted an in-depth Exploratory Data Analysis (EDA) on Amazon sales data to identify customer behaviour patterns, product performance, seasonal trends, and the impact of discounts on sales.

**Key Responsibilities:**

- Collected, cleaned, and pre-processed e-commerce sales data.
- Performed single-variable and bivariate analysis to uncover patterns and correlations.
- Applied data visualization techniques (histograms, scatter plots, heatmaps) for insights.
- Segmented customers based on purchase behaviour to optimize marketing strategies.
- Identified sales trends, high-performing product categories, and the impact of discounts.

**Technologies Used:** Python, Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook.

## CERTIFICATES

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### Complete Interview Preparation (CIP) Course

July 2024

**Platform:** Geeks for Geeks

- Successfully completed 92% of the CIP program, covering key topics in Data Structures, Algorithms, and Resume Building.
- Developed strong proficiency in Java programming, including Object-Oriented Programming (OOP), Array Lists, Strings, and advanced concepts.
- Gained hands-on experience through problem-solving, coding contests, and various coding challenges.

### Data Structures and Algorithms Certification

Aug 2024

**Platform:** Board Infinity

- Completed an extensive certification course focusing on Data Structures and Algorithms (DSA) with practical implementation using C++.
- Gained in-depth knowledge of key concepts, problem-solving strategies, and algorithmic optimization.
- Engaged in expert-led sessions and hands-on exercises, providing a strong foundation for technical interviews and real-world applications.

## EDUCATION

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**Bachelor of Technology**, Computer Science and Engineering  
Lovely Professional University, Punjab

Aug 2022 -Present

**Oxford Public School | XII | Science**  
Muzaffarpur, Bihar

Apr 2021 – Apr 2022