

Aditya Raj

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SKILLS

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

PROJECTS

Sentiment Analysis Using NLP

April 2025

Project Description: Developed a sentiment analysis model to classify restaurant reviews from the Yelp dataset into positive or negative sentiments, helping identify customer satisfaction trends.

Key Responsibilities:

- Collected, cleaned, and processed review data using Natural Language Processing (NLP) techniques for analysis.
- Built and trained a Logistic Regression model to predict sentiment.
- Analyzed results and provided insights to improve customer experience.

Technologies Used: Python, Pandas, NLTK, Scikit-learn

Predicting Student Exam Scores from Study Habits using Machine Learning

Nov 2024

Project Description: Developed a regression-based machine learning model to predict student exam scores based on study hours, sleep time, previous GPA, and practice tests, helping analyze factors influencing academic performance.

Key Responsibilities:

- Created and prepared dataset for model training and testing.
- Implemented Simple and Multiple Linear Regression to study relationships between factors and exam scores.
- Performed hypothesis testing, residual analysis, and visualizations to evaluate model accuracy and assumptions.

Technologies Used: Python, Pandas, NumPy, Matplotlib, Seaborn, scikit-learn, statsmodels

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.

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

CERTIFICATES

Complete Interview Preparation (CIP) Course

Aug 2024

Platform: Geeks for Geeks

- 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

July 2024

Platform: Board Infinity

- 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.

EDUCATION

Bachelor of Technology, Computer Science and Engineering

Aug 2022 -Present

Lovely Professional University, Punjab

Oxford Public School | XII | Science

Apr 2021 – Apr 2022

Muzaffarpur, Bihar