

# Adarsh Raj

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## SKILLS

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- **Languages:** C++, Python, MySQL, Kotlin
- **Tools/Platforms:** Git, GitHub, VS Code, MS Office, Power BI, Android Studio
- **Soft skills:** Problem-Solving, Team Leadership, Project Management, Adaptability, Perseverance

## PROJECTS

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### Employee Attrition Prediction using Machine Learning [\[GitHub\]](#) June 2025 - July 2025

- Developed an end-to-end employee attrition prediction system using Python and machine learning techniques to analyze workforce patterns and identify key factors influencing attrition.
- Performed data cleaning, preprocessing, feature engineering, and scaling, and trained classification models including Logistic Regression and Decision Tree to compare predictive performance.
- Visualized model metrics and insights, enabling data-driven decision-making, and built a scalable workflow suitable for HR analytics and organizational retention strategies.
- **Tech used:** Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Machine Learning models

### COVID-19 Mortality Trends in the U.S. [\[GitHub\]](#) March 2025 - May 2025

- Analyzed nationwide COVID-19 mortality patterns using government-provided datasets from Data.gov, focusing on trends across age groups, gender, and U.S. states.
- Performed data wrangling, cleaning, aggregation, and exploratory analysis using Python to uncover peak months, demographic differences, and state-wise variations in death counts.
- Created visualizations to highlight key insights, including mortality percentages and comparative trends, enabling a clearer understanding of the pandemic's impact for data-driven reporting and presentation.
- **Tech used:** Python, Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook

### Spotify Listening Analysis January 2025 - February 2025

- Conducted an exploratory analysis of Spotify listening history to identify user behavior patterns, including top artists, most-played tracks, and time-based listening trends.
- Cleaned, structured, and processed raw Spotify data using Excel, applying formulas, pivot tables, and aggregations to derive meaningful insights.
- Created interactive visualizations and dashboards to highlight frequency patterns and listening habits, enabling clear interpretation of user preferences and music consumption trends.
- **Tech used:** Excel (Formulas, Pivot Tables, Charts), Data Visualization

## TRAINING

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### Data Science with ML – Cipher Schools | [Certificate](#) June 2025 - July 2025

- Gained hands-on experience with MS Excel, including data cleaning, data visualization, pivot tables, advanced formulas, and dashboard creation.
- Learned and practiced Python for Data Science, covering data manipulation using Pandas, numerical computing with NumPy, and data visualization using Matplotlib and Seaborn.
- Implemented end-to-end Machine Learning workflows such as data preprocessing, model building, evaluation, and optimization using libraries like Scikit-Learn.

## CERTIFICATES

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- Cloud Computing | NPTEL, IIT Kharagpur | [Certificate](#) November 2025
- The Bits and Bytes of Computer Networking | Google, Coursera | [Certificate](#) September 2024
- Introduction to Hardware and Operating Systems | IBM, Coursera | [Certificate](#) September 2024

## EXTRA CURRICULAR ACTIVITIES

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- Completed a Deloitte job simulation involving data analysis and forensic technology July 2025
- 2nd Runner-up of digital Poster-Making Competition - EduRev Competition March 2025
- Participated in Republic of Cyber Sentinels CTF Hackathon (RCSCTF24) by Encrypt Edge January 2024

## EDUCATION

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**Lovely Professional University** Punjab, India

Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.54** Since August 2023

**Mahaviri Saraswati Vidya Mandir** Siwan, Bihar

Intermediate; **Percentage: 71.6** April 2021 - March 2023

**Mahaviri Saraswati Vidya Mandir** Siwan, Bihar

Matriculation; **Percentage: 78.2** April 2020 - March 2021