

# ADITI RAJ



Jaipur



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LinkedIn



GitHub

## Profile

A Tech-Savvy Professional specializing in Data Science and Web Development, with an expertise in machine learning and data visualization. Passionate about building data-driven solutions and contributing to innovative projects.

## Education

- **Manipal University Jaipur** — B.Tech in CSE (Specialization in Data Science), CGPA: 8.2 Aug 2023 – Jul 2027  
*Coursework:* Computer Architecture Systems, Statistics, Deep Learning, Object Oriented Programming, Cloud Computing, DSA, Design & Analysis of Algorithms, Operating Systems.
- **A A M Children Academy, CBSE** — 80% Mar 2023
- **Manipal Public School, CBSE** — 91% Apr 2021

## Technical Proficiencies

- **Languages:** Python, Java, C, HTML, CSS, MySQL
- **Tools & Technologies:** Power BI, Data Structures & Algorithms (DSA), Data Analysis, Machine Learning, Deep Learning, Computer Vision (OpenCV), Frontend Development, UI/UX Design
- **Frameworks & Libraries:** Pandas, NumPy, React.js, Node.js, Scikit-learn, TensorFlow, BERT

## Training & Projects

- **Object Detection and Safety Systems**
  - Developed a real-time object detection and tracking system using YOLOv8 to identify and track objects from live video input.
  - Implemented object detection using YOLOv8 (Ultralytics) with OpenCV for video processing.
  - Evaluated detection performance by calculating precision and recall metrics.
  - Demonstrated real-world applications in smart surveillance and traffic monitoring systems.
  - **Tools & Technologies:** Python, OpenCV, YOLOv8 (Ultralytics), NumPy.
- **Plant Species Predictor**
  - Implemented a machine learning model using Support Vector Machine (SVM) for accurate classification of plant species based on key morphological features.
  - Preprocessed and analyzed dataset for feature selection and model training.
  - Achieved improved classification accuracy, enhancing plant identification and efficiency.
  - Visualized data trends and model results using Matplotlib and Seaborn.
  - **Tools & Technologies:** Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn.

## Positions Held

- **DATA ANALYTICS INTERN** — MD TRESY Medical Travel Pvt. Ltd., New Delhi May 2025 – Jun 2025
  - Gained hands-on experience in data analytics, including data cleaning, preprocessing, and visualization.
  - Completed a project on “Analysis of Chemical Components” to extract insights and trends from complex datasets.
  - Conducted statistical analysis and generated data-driven reports to support decision-making.
  - Developed interactive dashboards using tools like Power BI to visualize key findings.
  - Applied Python libraries such as Pandas, NumPy, and Matplotlib for data manipulation and visualization.
  - Collaborated with cross-functional teams to understand business requirements and present actionable insights.
  - Enhanced data interpretation skills by identifying patterns, anomalies, and correlations in chemical composition datasets.

## Accreditations

- **Fundamentals of UI/UX Design** — United Latino Students Association Jun 2025
- **Foundations: Data, Data, Everywhere** — United Latino Students Association May 2025