

# Raveen Raj C

Chennai, India

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 Portfolio

## Professional Summary

Results-driven **Data Analyst** and **Machine Learning Enthusiast** with hands-on experience in data exploration, predictive modeling, and end-to-end project deployment. Proficient in Python, SQL, Power BI, and big data tools. Passionate about solving real-world problems through data-driven solutions. Seeking roles in **Data Analytics, Machine Learning, or Backend Development**.

## Education

**M.E. in Computer Science and Engineering (Big Data Analytics)**  
Anna University College of Engineering, Chennai

2023–2025

CGPA: 6.5

**B.E. in Computer Science and Engineering**  
Jeppiaar Engineering College, Chennai

2019–2023

CGPA: 8.0

## Skills

- Programming:** Python, C, R, SQL, HTML, CSS
- Data Tools:** Power BI, Microsoft Excel, MongoDB, R Studio, D3.js
- Machine Learning & AI:** Pandas, NumPy, Scikit-learn, TensorFlow, Deep Learning, NLP, LLM Integration, Grad-CAM, LIME
- Other:** Data Cleaning & Wrangling, Explainable AI
- Soft Skills:** Problem Solving, Team Collaboration, Communication, Project Management

## Projects

### 1) Plant Disease Diagnosis System

- Built CNN model (**InceptionV3**) for disease classification using leaf images
- Implemented **Grad-CAM heatmaps**, severity estimation, and remedy suggestion via ontology
- Predicted disease spread with synthetic time-series data (LSTM)
- Deployed with Streamlit + LLM-based chatbot for user interaction

### 2) Fake Store Web Scraping & Data Analysis

- Scraped product data (BeautifulSoup, Requests) and conducted EDA with Plotly/Seaborn
- Designed **Power BI dashboard** with category-wise insights & stock alerts

### 3) Sales Forecasting Model

- Forecasted sales using **ARIMA** and **Prophet** models
- Visualized trends and anomalies for retail business decision-making

#### **4) AI Chatbot Development**

- Fine-tuned LLMs on user datasets for personalization
- Built an interactive chatbot for context-aware responses

#### **5) Face Mask Detection System**

- CNN-based mask detection (OpenCV) with real-time webcam integration
- Alert system for non-compliance monitoring

## **Internship**

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### **Python and Data Science Intern**

Spiro Solutions, Chennai (2022)

- Automated scripts & data preprocessing in Python
- Assisted in visualization and ML model training

## **Areas of Interest**

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- Data Analysis and Visualization
- Machine Learning & AI Research
- Big Data Engineering
- Backend Development

## **Personal Details**

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- **Name:** Raveen Raj C
- **Date of Birth:** 16 June 2002
- **Gender:** Male
- **Nationality:** Indian
- **Languages Known:** English, Tamil
- **Address:** Chennai, India