

# Madhura Gundluru

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## Professional Summary

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Data Science and AI professional with strong expertise in Python, machine learning, data analysis, and end-to-end ML workflows. Experienced in building predictive models, performing exploratory data analysis, and delivering data-driven insights for real-world business problems.

## Technical Skills

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### Programming & Querying: Python, SQL

**Data Science:** Data Cleaning, Exploratory Data Analysis (EDA), Data Preprocessing, Feature Engineering, Descriptive Statistics

**Machine Learning Algorithms:** Linear Regression, Logistic Regression, Naive Bayes, Decision Trees, Random Forest

**Machine Learning Concepts:** Supervised Learning, Classification, Regression, Model Training, Model Evaluation

**Libraries & Frameworks:** Pandas, NumPy, Scikit-learn

**Data Visualization & BI:** MS Excel, Power BI (DAX, Dashboards), Matplotlib, Seaborn

**Databases:** MySQL, MongoDB

**Web Technologies:** HTML, CSS, JavaScript, React, Flask, Django

## Experience

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### Data Science with AI Intern

Jun 2025 – Jan 2026

*Eco Brains, Bengaluru*

- Collected, cleaned, and transformed over 100,000 records to support analytical and reporting workflows.
- Conducted exploratory data analysis to uncover trends and insights related to business performance metrics.
- Built and evaluated machine learning models using scikit-learn for predictive analytics.
- Designed Power BI dashboards to visualize KPIs and performance trends for stakeholders.
- Collaborated with cross-functional teams to define and monitor key performance indicators.

## Projects

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### Customer Churn Prediction (End-to-End ML Project)

2026

- Developed an end-to-end machine learning pipeline to predict customer churn using telecom data.
- Performed data cleaning, handled missing values, and conducted exploratory data analysis with visualizations.
- Applied feature engineering and encoded categorical variables for model readiness.

- Trained and evaluated classification models such as Logistic Regression and Random Forest.
- Analyzed model performance using accuracy, precision, recall, and classification reports.

### **Smart Career Recommendation System (AI-Based)**

2025

- Built an AI-based recommendation system to suggest suitable job roles based on user skills.
- Applied TF-IDF vectorization and cosine similarity to compute semantic similarity between skills and job requirements.
- Generated explainable AI insights to justify recommendations and enhance transparency.
- Identified skill gaps and provided data-driven guidance for targeted upskilling.

### **Exploratory Data Analysis on Iris Data Set**

2025

- Explored feature distributions and relationships across Iris species using statistical analysis..
- Visualized patterns through box plots and correlation analysis.

## **Education**

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### **Bachelor of Technology in CSE (AI & ML)**

2021-

2025

Siddharth Institute of Engineering and Technology, Puttur, AP

CGPA: 8.65

## **Certifications**

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- Joy of Python – NPTEL
- Python Programming Intern – Motion Cut
- Basics of Power BI and DAX – Microsoft Learn
- Becoming an Effective Leader – edX

## **Interests**

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Dancing, learning new technologies, building personal projects, cooking and experimenting with recipes

## **Declaration**

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I hereby declare that the above information is true and correct to the best of my knowledge and belief.

**Date:** 30-12-2025

**Place:** Bengaluru, Karnataka

**Madhura Gundluru**