

Madhura Gundluru

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Professional Summary

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

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

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

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

Bachelor of Technology in CSE (AI & ML)

Siddharth Institute of Engineering and Technology, Puttur, AP
CGPA: 8.65

2021–
2025

Certifications

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

Interests

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

Declaration

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