

Madhura Gundluru

Junior Data Scientist

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Portfolio: myportfolio-2quoh57udkdrmsqeecaqwf.streamlit.app

Summary

Data Analyst with a strong foundation in Python, SQL, Excel, and Power BI, with a growing focus on data science, machine learning, and AI. Experienced in data cleaning, exploratory analysis, and visualization to derive meaningful insights. Motivated to apply data analysis and intelligent systems to support informed business decisions.

Skills

Programming and Querying: Python, SQL

Data Analysis and Processing: Data cleaning, exploratory data analysis, data preprocessing, feature engineering, descriptive statistics

Data Visualization and BI Tools: MS Excel, Power BI (DAX, dashboards), Matplotlib, Seaborn

Machine Learning and AI: Linear regression, supervised learning, model training, model evaluation, NLP basics

Libraries and Frameworks: Pandas, NumPy, scikit learn

Databases: MySQL, MongoDB

Web and Application Development: HTML, CSS, JavaScript, React, Flask, Django

Behavioural Skills: Adaptability, Time Management

Experience

Data Science with AI Intern

Eco Brains, Bengaluru

June 2025 – January 2026

Tools: Python, SQL, Excel, Power BI, scikit learn

- Collected, cleaned, and transformed over 100,000 records to support analytical and reporting workflows.
- Conducted exploratory analysis to uncover trends and insights relevant to business metrics.
- Built and evaluated linear regression models using scikit learn for predictive analysis.
- Designed Power BI dashboards to visualize KPIs and performance trends for stakeholders.
- Collaborated with analysts to define and track key performance indicators.

Projects

Smart Career Recommendation System (AI-Based)

2025

- Built an AI-based career recommendation system using Data Science and Machine Learning to analyze user skills and suggest relevant job roles.
- Applied TF-IDF vectorization and cosine similarity to compute semantic similarity between user skills and job requirements.
- Implemented explainable AI insights to clearly justify recommendations and improve transparency.
- Identified skill gaps and provided guidance to support data-driven career upskilling.

Netflix Data Analysis

- Analyzed Netflix user and content data to identify viewing trends and behavior patterns.
- Handled missing values, duplicates, and inconsistent formats during data preparation.
- Derived actionable insights through exploratory analysis of large data sets.

SMS Spam Detection

- Developed an NLP based machine learning model to classify SMS messages as spam or ham.
- Applied text preprocessing and TF IDF vectorization for feature extraction.
- Trained and assessed Naive Bayes and Logistic Regression models.

Exploratory Data Analysis on Iris Data Set

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

AI Driven Cervical Cancer Detection System**Final Year Academic Project**

- Designed an AI based system for cervical cancer detection inspired by IEEE research studies.
- Prepared data and features to support machine learning model development.
- Focused on early stage risk identification using intelligent data analysis techniques.

Education**Bachelor of Technology in CSE(AI and ML)**

2021 - 2025

Siddharth Institute of Engineering and Technology, Puttur, AP

CGPA: 8.65

Certifications

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

Hobbies and Interests

- Dancing and exploring different dance styles
- Learning new technologies and working on personal projects
- Cooking and experimenting with new recipes

Date: 30-12-2025**Place:** Bengaluru, Karnataka**Madhura Gundluru**