

Maddimani Madhava Raju

Aspiring Data Analyst

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Profile Summary

I'm an Aspiring Data Analyst with a strong interest in uncovering insights through data. Skilled in Python, Pandas, NumPy, SQL, Power BI, and Advanced Statistics, I enjoy cleaning, analyzing, and visualizing datasets to solve real-world problems. Passionate about continuous learning and applying data-driven approaches to support smarter business decisions and deliver impactful solutions.

Education

Bachelor of Technology (Electronics and communication Engineering), Sreenivasa institute of Technology and Management Studies CGPA: 8.2	05/2025
Intermediate (MPC), Amaravathi Junior College	04/2021
SSC, Tadimarri Z.P.High School	04/2019

Skills

Python

Data types, Loops, Functions, OOPs, NumPy, pandas, Matplotlib, Seaborn, File handling, Exception handling

SQL

Joins, Subqueries, Aggregate functions, Window functions, CTEs, Data filtering, CRUD operations, Query optimization

Power BI

Probability distributions, Hypothesis testing, Correlation & regression, Chi-square test, Sampling techniques, Statistical inference

EDA

Data cleaning, Feature selection, Outlier detection, Correlation analysis, Visualization, Hypothesis testing, Data transformation

Advanced Stats

Data modeling, DAX functions, Dashboard creation, Power Query, Report publishing, Data relationships

Computer Vision

Image preprocessing, Feature extraction, Object detection, Image segmentation, OpenCV operations

Projects

Exploratory Data Analysis on IMDb Top Grossing Movies

- Collected and scraped data of top-grossing movies from IMDb using Python and BeautifulSoup.
- Cleaned and preprocessed datasets by handling missing values, duplicates, and formatting inconsistencies.
- Conducted in-depth exploratory data analysis (EDA) using pandas, NumPy, Matplotlib, and Seaborn to extract meaningful insights.
- Analyzed key trends based on revenue, genres, directors, and release years to identify performance patterns.
- Developed 10+ visualizations showcasing insights such as top-performing genres, revenue distribution, and director/actor success rates.

Employee Management System using SQL

- Designed and implemented a relational database using ER modeling to manage employees, departments, job roles, salaries, and payroll data.
- Created optimized database tables with primary and foreign keys, ensuring data integrity and relational consistency.
- Automated bulk data import using LOAD DATA INFILE and import wizards for efficient handling of large datasets.
- Developed advanced SQL queries for salary analysis, leave tracking, job role distribution, and payroll expenditure insights.
- Engineered a scalable Employee Management System that integrated data analytics tools, enabling HR to generate real-time reports and insights, which improved data-driven decision-making for over 200 employees company-wide.

Banking Transaction Analysis Dashboard using Power BI

- Designed and developed an interactive Power BI dashboard to visualize customer spending and income patterns.
- Utilized Power Query for data cleaning, preprocessing, and integration from multiple financial data sources.
- Implemented DAX measures and calculated columns to compute KPIs such as total deposits, withdrawals, average balance, and transaction frequency.
- Added drill-through and slicer filters for detailed insights across customer segments, time periods, and transaction types.
- Delivered a data-driven dashboard solution that improved decision-making by identifying trends in customer behavior and revenue growth opportunities.

Certificates

- Tata Data Visualization: Empowering Business with Effective Insights – Job Simulation (Forge, Sep 2025)
- Python Programming – Module Completion, Innomatics Research Labs
- Deloitte Australia Data Analytics – Job Simulation (Forge, Sep 2025)
- Exploratory Data Analysis – Module Completion, Innomatics Research Labs