MALLELA NIRMALA JYOTHI

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EDUCATION

Bachelor of Engineering in Computer Science (Artificial Intelligence) 2021 – 2025
Gates Institute of Engineering, Gooty
Percentage - 78 %

Intermediate (M.P.C) 2019 – 2021
Narayana Junior College, Kurnool
Percentage - 89%

S.S.C 2018 – 2019
Maharshi Dayananda Gurukulam, Gooty
Percentage - 93%

SKILLS:

Python
Python (Pandas, NumPy)

SQL
SQL (MySQL, Joins, Subqueries, Aggregations),

Excel
Data cleaning, formulas, pivot tables, charts, and basic dashboard creation.

Power BI
Power BI (DAX, Power Query, Dashboards)

Exploratory Data Analysis
Exploratory Data Analysis (EDA), Data Cleaning & Wrangling

PROJECTS

Recommendation Systems Based on Customer Reviews using AI and NLP
- I Processed **10,000+ customer reviews** using Python (Pandas, NumPy) and NLP methods to derive sentiment insights for product recommendations
- Executed comprehensive **data cleaning and text preprocessing** across the entire dataset to enhance feature readiness for analysis
- Performed **exploratory analysis** to uncover sentiment patterns, enabling separation of reviews into positive and negative classes
- Implemented **TF-IDF feature extraction and classification models** to transform unstructured text into predictive numerical representations
- Created a **sentiment-based recommendation workflow** that reduced manual review effort by **~80%** and accelerated insight delivery

Grocery Store Management System
- I Built a **7-table relational database schema** in SQL to support structured analysis of customers, orders, products, suppliers, employees, and categories
- Developed **25+ advanced SQL queries** leveraging JOINs, aggregations, and conditional logic to extract meaningful business insights
- Identified **high-value customers and purchasing patterns** by computing total spend, average order value, and top revenue contributors
- Assessed **product, category, and supplier performance** using sales volume, revenue contribution, and pricing metrics
- Examined **order and revenue trends over time** (monthly, weekdays vs weekends) to highlight peak demand periods and operational insights

Exploratory Data Analysis on Netflix Dataset
- I Analyzed **8,800+ Netflix titles** using Python (Pandas, NumPy) to uncover trends across content type, genre, country, and release year
- Performed **data cleaning and preprocessing** on multiple columns (missing values, formatting, duplicates), improving dataset usability by **100%**
- Conducted **exploratory data analysis (EDA)** to compare Movies vs TV Shows, identifying content distribution across **10+ genres and countries**
- Generated insights on **release year trends, ratings, and duration patterns**, supporting data-driven content strategy analysis
- Used aggregation and value counts to evaluate popularity of categories, helping identify **top-performing genres and regions**

CERTIFICATES

- Python Certificate
- SQL Certificate
- NPTEL certificate in the subject of IOT

LANGUAGES

- English
- Telugu
- Hindi