

JAY RAJ

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SUMMARY

AspiringDataAnalyst with hands-on experience in turning raw data into meaningful insights that help improve business performance. Undergoing training at Innomatics Research Labs, focused on data analysis using SQL, Python, and libraries such as Pandas, NumPy, Matplotlib, and Seaborn. Strong foundation in Statistics and Mathematics with proficiency in analytical tools and technologies to derive actionable insights.

EDUCATION

Bachelor of Technology in Computer Science and Engineering CGPA -7.5 DEC 2021 -2025 *Karmveer Bhaurao Patil College of Engineering Satara*

SKILLS

Programming Languages: Python (Pandas, NumPy, Matplotlib, Seaborn), SQL (MySQL, PostgreSQL) **Data**

Manipulation & Cleaning: Handling missing values, data transformation, filtering, grouping, exploratory data analysis (EDA), and web scraping using Beautiful Soup and Requests

Data Visualization: Power BI (Dashboards, Interactive Charts), Microsoft Excel (Pivot Tables, Conditional Format , Chart Tools)

Statistical Analysis: Descriptive statistics, correlation analysis, hypothesis testing

Soft Skills: Problem Solving, Critical Thinking, Collaboration, Communication, Adaptability

PROJECTS

Data-Driven Analysis of MHT-CET 2024 Engineering College Cutoffs

Tools & Technologies: Python (*Pandas, NumPy, Matplotlib, Seaborn, Regex*), SQL, Power BI • **Extracted real-time cutoff data** from <https://fe2024.mahacet.org/> using Python web scraping (Requests,Beautiful Soup).

- Used **Regex** to transform unstructured cutoff strings into structured columns (College Name, Branch, Category, Cutoff Score).
- **Cleaned and transformed data** by handling missing values, standardizing formats, and performing type conversions. Conducted **Exploratory Data Analysis (EDA)** to identify top-performing colleges, high-demand branches, and category-wise trends.
- Detected and addressed **outliers**, applied **data visualization** techniques (histograms, boxplots, heatmaps) using Matplotlib & Seaborn.
- Built an **interactive Power BI dashboard** to explore college-wise, region-wise, and category-wise cutoff comparisons.

Weather Data Analysis Dashboard – Power BI Project

- Designed and developed a 5-page interactive **Power BI** dashboard analyzing weather parameters (**rainfall, temperature, humidity, wind speed**) across Telangana **districts** and **mandals**, with centralized navigation and intuitive **sliders**.
- Applied **Power Query** for data cleaning and transformation, used **DAX** to compute weather **KPIs**, detect seasonal trends, and highlight anomalies across regions.
- Created dynamic visualizations including **bar, line, scatter, donut, heat maps**, and **tables** to uncover actionable insights from **four-year weather data**.
- Enabled climate-aware decision-making by identifying **vulnerable regions** and long-term **weather shifts**, supporting planning in **agriculture, health, and infrastructure**.

Music Store Sales & Customer Insights Analysis

Tools & Technologies: MySQL (*Joins, Subqueries, CTEs, Window Functions*)

- Analyzed a normalized **11-table relational database** consisting of (employee, customer, invoice, invoice_line, track, playlist, playlist_track, album, artist, genre, and media_type)
- Wrote **optimized SQL queries** using **joins ,group by ,havings** , and **window functions** to identify sales and customer trends.
- Gained expertise in **relational design, foreign key relationships, and multi-table querying**. •

Delivered **clean, well-structured queries** to support **data-driven decision-making**.

- Practiced **query modularity** and **performance tuning** for efficient analysis.