

Sowmya Pallemptati

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WORK EXPERIENCE

Reality Interactive

Data Analyst Consultant

Hartford, CT

Aug 2023 – Dec 2023

- Analyzed **17,580** log files to identify patterns causing **display failures**, leading to a **32%** reduction in **ad disruptions** and averting potential revenue loss.
- Led end-to-end **ETL** and **data preprocessing** tasks with SQL, PostgreSQL, and Python resulting in a **40%** improvement in data quality laying a robust foundation for subsequent analyses.
- Created excel **VLOOKUPs** and performed **segmentation analysis** by market types, enhancing operational efficiency by **15%** through streamlined data analysis.
- Developed **Power BI dashboards** for real-time monitoring, reducing **customer-reported** issues by **28%** through swift detection of playlist **pattern inconsistencies** for the content management team.

UConn Q-center

Statistics Teaching Assistant

Hartford, CT

Jan 2023 – present

- Mentored over **80** students in **statistics** and mathematics, nurturing a solid grasp of core concepts and addressing Queries.
- Facilitated students on academic projects, performing **data analysis** using Minitab, enhancing practical skills in statistical analysis and **data visualization** techniques.

Larsen & Toubro InfoTech

Data Engineer – Client: CITI Bank

Pune, India

Feb 2021 – Aug 2022

- Created **Tableau dashboards** for identifying **defect patterns** based on historical failed build data achieving a **20%** increase in detecting defects before production.
- Conducted routine **data quality** checks on **25+** tables ensuring **data integrity** and maintained documentation for reference.
- Implemented **ETL** pipelines and developed **triggers, stored procedures, functions, and views** in **MySQL** reducing manual data handling by **40%**.
- Collaborated closely with **cross-functional** teams to identify **data requirements** and design dashboards. Co-ordinated with **QA team** to ensure successful **sign-offs** and resolve any **SIT/UAT** regression issues within GRC Framework.
- Prepared **Epics** and **user stories** in **JIRA**, mapping Citibank's application requirements. Communicated **actionable insights** through data visualizations and presentations to clients driving performance improvement strategies.

Graduate Engineer Trainee (Data Analyst Intern)

Nov 2020 – Feb 2021

- Designed **SQL queries** using **joins** and **subqueries** to extract required information from a data file containing **40k** rows.
- Performed **data manipulation** and utilized **analytical functions** for trend identification and **time-based analysis**.
- Formulated performance statistics by creating **15+** measures using **DAX** expressions and built an interactive **Power BI** dashboard to monitor loan approval status, saving **100s** of hours in analysis.

ACADEMIC PROJECT EXPERIENCE

A case study in optimizing cancer therapy outcomes at Humana | Excel, Python, Power BI.

Nov 2023

- Leveraged advanced **EDA** and methods like **one-hot encoding, Lasso regression** and **ANOVA F-Test** in predicting prematurely ending cancer therapies achieving an AUC score of **0.92** with CatBoost Classifier.
- Employed **KNN clustering** and provided segment-specific business **recommendations** saving Humana approx. **\$2,450,000**.

Restaurant Analytics | JMP, Power BI

Jun 2023

- Collected **6** months of restaurant data and explored distributions and **correlations** among diverse revenue contributing factors.
- Built Power BI dashboard featuring **key metrics** for daily sales and food wastage. **Redesigned** the restaurant's menu and processes, contributing to an estimated revenue increase of over **10%** and an **18%** reduction in wastage.

Ecommerce-sales | Excel, Tableau | [Link](#).

Apr 2023

- Generated **reports** and **dashboards** on **8K+** orders in **Tableau** for a supermarket chain empowering stakeholders to visualize and analyze **KPIs** related to **sales** and **profit** leading to data-driven decision-making.
- Identified **top 5** performing agents using reports and **key metrics** advising valuable **insights** to the sales manager.

Enhancing customer retention for Hilton Group using analytics | Customer Journey Analytics.

Nov 2022

- Collaborated with a team of **3** to identify **key indicators** of travel, such as travel dates, destinations, and duration.
- Analyzed **traffic patterns** to determine major issues leading to customer exit. Suggested actionable recommendations using findings and analysis, potentially **retaining 12%** customers exiting website.

SKILLS

Languages: SQL, Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Keras).

Tools and Interfaces: Microsoft Excel, Power BI, Tableau, Google Analytics, SAS, DBeaver, MYSQL, Hadoop, JMP, Git, JIRA.

Analytical Techniques: Data cleaning and processing, Data modelling, Pattern recognition, Hypothesis Testing, Regression analysis, Clustering, Data Mining, Time Series Forecasting, Data Warehousing, Survival Analysis.

EDUCATION

University of Connecticut

Master of Science in Business Analytics and Project Management, **GPA: 3.95**

Hartford, CT

Expected May 2024