Usa Sudarshan

Data Analyst Trainee

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Education

B.Sc. in Science, *Acharya Nagarjuna University*   06/2020 – 08/2023
Guntur, India

Skills

Python
NumPy, Pandas, Matplotlib, Seaborn, Plotly

Sql
Data Management, Joins, Sub Queries, Stored Procedures, Functions, Triggers, Connections

Statistics
Discriptive Statistics, Inferential Statistics, Hypothesis Testing , Data Distributions

Power BI
Dashboards, Data modeling, Power Query, Dax

Excel
Data Cleaning, V-lookup, H-lookup, Aggrigate Functions, Pivot Table

Projects

Unveiling Trends in Flipkart Mobile Sales, *Python*
- Scraped and analyzed **500+ mobile product records** using BeautifulSoup from a simulated Flipkart dataset.
- Cleaned and processed data to achieve a **100% valid dataset**, handling missing values and inconsistencies.
- Created **5+ detailed visualizations**, including histograms, boxplots, and violin plots, to explore price distributions across **10 popular brands**.
- Conducted pairwise **statistical tests** (t-test and Mann-Whitney U test) on over **21 brand combinations**, revealing significant price differences for **30% of the pairs** at a 95% confidence level.
- Delivered actionable insights for optimizing **pricing strategies and promotional campaigns**, contributing to potential revenue growth.

Adult Dataset Exploration, *Python*
- Examined **28,842 records** from the Adult dataset to identify key factors influencing income levels, such as education, occupation, and age, resulting in a deeper understanding of income inequality
- Built **8+ data visualizations** using Seaborn and Matplotlib to reveal insights, such as the correlation between **education level and income bracket**.
- Performed classification analysis to predict income, achieving a **75% accuracy** with optimized feature selection and data preprocessing.

Power BI Dashboard for Adidas Sales, *Power BI*
- Explored Adidas sales data using **Power BI** to uncover key trends and patterns.
- Architected interactive dashboards to monitor sales performance and inform decision-making.
- Identified a **20% revenue spike** in athletic wear sales during Q2, providing actionable insights for strategic planning and inventory management.
- Delivered actionable insights through visually appealing reports, driving business growth and customer satisfaction.

Forecasting Weather Patterns in Telangana, *Power BI*

- Employed **Power BI** to visualize and analyze **80,000+** weather records to identify trends in temperature, humidity, and rainfall.
- Constructed **interactive dashboards** in Power BI to track trends, including a **15%** rise in average summer temperatures.
- Utilized Power BI's forecasting capabilities to predict future weather conditions, achieving **85%** accuracy.
- Presented data-driven insights through visually appealing Power BI reports to inform decision-making and strategic planning.

Data-Driven Library Management, *Sql*

- Designed and implemented a **relational database schema to efficiently store and manage library data, including books, members, and transactions.**
- Generated SQL queries to perform complex operations, such as **searching for books, tracking member activity, and generating reports.**
- Optimized database performance by creating indexes and tuning queries, reducing query execution time by **30%**.
- Formed **complex joins, subqueries, and aggregations** to generate reports on book availability, patron activity, and inventory status.

IPL Data Transformation, *Sql*

- Processed and restructured **2+ years of IPL data**, including 1**00+ match records**, 1,000+ player statistics, and team performance metrics.
- Executed **SQL queries** to normalize and aggregate raw data, creating efficient relational tables for easy analysis of **player performance** and **team rankings**.
- Utilized **complex joins** and **subqueries** to generate insights on player contributions, such as top run-scorers and wicket-takers across seasons.
- Formed **custom reports** for **performance comparisons** between teams and players, highlighting trends like team win percentage and player consistency over multiple seasons.

Internship Experience

Data Analytics and Visualizations , Accenture North America, *Intern*

- Exploited advanced data analytics techniques to uncover actionable insights from over **60,000 data points** across diverse industries.
- Modeled **interactive dashboards** using **Power BI** to present key metrics such as **customer behavior, sales performance, and operational efficiency**.
- Performed **data cleaning and transformation** using **SQL** and **Python**, improving data accuracy and preparing datasets for advanced analysis.
- Delivered **monthly reports** to stakeholders, providing insights that helped improve business decision-making and led to a **10% improvement in process optimization** for clients.

TATA Data Visualization   Empowering Business with effective Insights, *Intern*

- Formulated and developed **Collaborative dashboards** and **visual reports** using **Power BI**, enabling business leaders to gain actionable insights from 100,000+ data points.
- Applied **data visualization techniques** to simplify complex datasets, allowing stakeholders to easily analyze key metrics such as **sales trends, customer engagement, and operational performance**.
- Collaborated with cross-functional teams to understand business requirements, providing tailored visual solutions that supported decision-making processes and enhanced data-driven strategies.

Certificates

- Python for Data Science
- Power BI
- Data Analytics and Visualization
- Advanced Excel
- SQl
- Data Visualizations and Empowering Business Insights