SAKSHEE SINGH

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Education

Uttar Pradesh Rajarshi Tondon Open University, India **2023 – 2025**

Master of Computer Application *Aggregate – 70 %*

Relevant Courses: OOPS, Data Analysis, Python, Operating Systems, DBMS

Experience

Innobyte Services **01st Mar 2025 – 30th Mar 2025**

Data Analyst Intern **Link**

- Designed and developed dashboards that effectively communicated **KPIs**.
- **HR data**, focusing on gender-related KPIs, and identified key factors affecting **gender balance** at the executive level.
- Used **data storytelling** and visualization techniques to uncover meaningful insights and drive strategic decisions.

Projects

Job Recommendation System | *NumPy, Pandas, Scikit-Learn* **Github**

- Developed a Job Recommendation System leveraging Python libraries like **Pandas**, **NumPy**, and **Scikit-learn** to process and **analyze** job datasets for personalized recommendations.
- Utilized **data visualization** tools such as **Matplotlib** and **Seaborn** to identify key trends and user-job matching patterns, **improving** system insights.
- Implemented **natural language processing** techniques with **SciPy** to parse job descriptions and candidate profiles, enhancing the **accuracy** of job matching.

Lok Shabha Election Data Analysis | *Power BI, EDA* **Github**

- Analyzed **543 constituencies** from the Lok Shabha election dataset to uncover insights into **seat distribution** across major parties, highlighting BJP (**240 seats**), INC (**99 seats**), and others (**204 seats**).
- Built an interactive **Power BI** dashboard featuring key metrics such as **vote share percentages**, **top 5 parties by seats**, and **regional party performance**, enabling intuitive data-driven exploration.

Time Series Forecasting | *ARIMA / SARIMA Models, RMSE, EDA* **Github**

- Forecasted monthly wine sales for two product lines over a **12-month** horizon using advanced time series models including **Holt-Winters**, **ARIMA/SARIMA**, and **Exponential Smoothing**, ensuring accurate demand planning.
- Evaluated and compared **12 forecasting models** using **Root Mean Squared Error (RMSE)** on test data, and recommended the most optimal model with confidence intervals for reliable business decision-making.
- Applied **time series EDA**, moving averages, and statistical modeling techniques (both automated and manual fitting) to identify trends, seasonality, and forecast uncertainty in historical sales data.

COVID-19 Vaccination Data Analysis | *MySQL, NumPy, Pandas* **Github**

- Conducted in-depth analysis of WHO COVID-19 data using **MySQL** to extract insights on **infection rates**, **death counts**, and **vaccination coverage** across countries and continents.
- Wrote complex SQL queries to answer key public health questions, such as **population vaccination percentage**, **deaths by continent**, and **infection-to-population ratios**, using a dataset of **81,060 records**.
- Identified high-risk regions by analyzing **death rates per population** and compared metrics like **Total Cases vs. Total Deaths** in specific countries (e.g., Nigeria) to assess pandemic severity.

Certifications

Power BI Training | *Infosys Springboard* Link

SQL Fundamentals | *WsCube Tech* Link

YouTube Data Analysis using Python | *WsCube Tech* Link

Skills

Programming Languages	Python, MySQL
Data Analysis & Visualization	NumPy, Pandas, Matplotlib, Seaborn, Statistics, Excel (Advanced), Power BI
Machine Learning & Forecasting	Supervised learning, Scikit- Learn, ARIMA/SARIMA, Regression models
Tools/Platforms	Git/Github, Jupyter Notebook, VS Code, MySQL Workbench, MS Word
Soft Skills	Problem Solving, Critical Thinking, Communication, Time Management
Academic Coursework	Linear Data Structures, DBMS, OOPs, Operating Systems, Computer Networks