DIVYANSHU SHARMA

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Technical Skills

Programming Languages: Python, C++, SQL
Data Analysis & Visualization: Pandas, NumPy, Excel, Power BI
Machine Learning: Predictive Modeling, Statistics

Experience

Unified Mentor **Sept 2024 – Present**

Data Analyst Intern

- Analyzed a comprehensive dataset of over **4.5 million Uber trip records** from New York City, uncovering significant trends related to **peak demand hours** and **high-demand locations**. This analysis guided the optimization of resource allocation, improving operational efficiency.
- Developed and implemented a **predictive model** using Python and machine learning to forecast **future trip demand** based on key features such as pickup time, day, and location, directly enhancing **decision-making processes** for resource planning.
- Produced insightful visualizations using Python's data visualization libraries, effectively communicating **complex trip patterns** and **demand fluctuations**, and facilitating data-driven operational adjustments.
- Led an in-depth analysis of **employee attrition data at IBM**, examining key metrics such as job satisfaction, monthly income, and work-life balance.
- Designed and developed an interactive Power BI dashboard, enabling HR teams to actively **monitor employee attrition** and **performance metrics**.

Projects

Uber Trip Analysis | *Python, Machine Learning, Excel*

- Managed a dataset encompassing over 4.5 million Uber trips in New York City, conducting extensive **exploratory data analysis (EDA)** to identify trends and patterns in trip demand, based on factors such as time of day, day of the week, and pickup locations.
- **Engineered new features** such as the specific time of day and location, which were then used to **develop a predictive model** that forecasted future trip demand.
- The machine learning model **enhanced operational efficiency** by predicting high-demand periods and enabling better decision-making for ride dispatching and driver availability.

IBM HR Analytics: Employee Attrition & Performance | *Python, Excel, Power BI*

- Analyzed an employee dataset containing over **1,470 records**, focusing on key factors such as job roles, monthly income, satisfaction levels, and work-life balance, to understand and **predict attrition rates**.
- Explored the impact of various factors including job involvement, environment satisfaction, and salary on overall employee turnover. This analysis provided a clearer understanding of demographic and job-related trends affecting employee retention.

Certificates

1. ***Data Analytics with Python*** *- NPTEL*
2. ***Introduction to Machine Learning*** *- NPTEL*
3. ***Deep Learning*** *- NPTEL*
4. ***Advanced Course in Social Psychology*** *- NPTEL*
5. ***Digital 101*** *- FutureSkills Prime*
6. ***Introduction to Data Science*** *- Cisco Networking Academy*
7. ***Data Visualization*** *- Infosys Springboard*
8. ***Generative AI*** *- LinkedIn Learning*

Education

Dr. A.P.J. Abdul Kalam Technical University **Sep 2022 – Sep 2026**

Bachelor of Technology (Data Science) *Moradabad, Uttar Pradesh*