PRAKASH DURA

prakashdura20@gmail.com | 615-935-0007 | U.S. Permanent Resident | LinkedIn | GitHub | Portfolio

EDUCATION

Tennessee State University(TSU) Nashville, TN

MS in Computer Science with Data Science Concentration |GPA 4.0 *January 2022- May 2025*

Relevant Coursework: Intro to Data Science, Machine Learning, Hybrid and Relational Database, Advanced Algorithms and Data Analysis, Software Engineering, Data Visualization.

Asian School of Management and Technology (ASMT) Kathmandu, Nepal

Bachelor of Computer Science and Information Technology (CSIT) / GPA 3.5/4 *January 2016 - December 2021*

SKILLS

Languages : Python, SQL, JAVA

Database: MySQL

Analytical Tools: Advanced MS-Excel, Tableau, Microsoft Power BI, Jupyter Notebook

Libraries/Frameworks: NumPy, Pandas, Matplotlib, Seaborn, SQL Alchemy, Scikit-Learn, Apache, TensorFlow

ACADEMIC PROJECTS

US Household Income Analysis | My*SQL Project* | *March 2025- March 2025*

- Conducted data cleaning and exploratory data analysis (EDA) on a **dataset of 32,000 US** household income records.
- Removed duplicates, standardized state names, and fixed inconsistencies in the datasets.
- Derived insights on income distribution, GDP correlation, and regional disparities.

HR Analytics Dashboard | Power BI Project | *February 2025- March 2025*

- Developed a Power BI dashboard analyzing employee attrition by salary, education, department, and gender using 1,480 records.
- Used Power Query for data transformation, and **DAX** to create custom **KPIs** such as attrition rate, average salary, and average tenure.
- Visualized insights with slicers, bar charts, pie charts, and line graphs to support drill-down analysis across departments and demographics.
- Identified trends in high attrition segments (e.g., low salary, early tenure), enabling strategic workforce planning recommendations.

NYC Bus Breakdown and Delays Analysis | *Excel Project* *January 2024- February 2025*

- Analyzed and cleaned a dataset downloaded from the NYC Open Data Portal **with 1.8 million rows** on NYC bus breakdowns and delays.
- Structured data by handling missing values, duplicates, and inconsistencies to improve accuracy.
- Identified common delay causes and trends based on the day of the week, bus companies, and borough.
- Developed dashboards and reports using **Excel (PivotTables, VLOOKUP)** for trend visualization.
- Derived actionable insights to enhance service efficiency and reduce bus delays.

Rice Image Classification using CNN | *Tennessee State University* *April 2024 - May 2024*

- Implemented and optimized a Convolutional Neural Network (CNN) using **TensorFlow/Keras**.
- Executed a pre-trained model from **GitHub/Kaggle**, analyzed the source code, and evaluated its performance.
- Modified the model by changing the optimizer, adjusting the batch size and learning rate, and retraining it to improve performance.
- Compared the results of the modified model with the original, focusing on accuracy and loss metrics.

World Happiness Report Data Analysis | *Tennessee State University* | *May 2023 - June 2023*

- Analyzed global happiness scores (2015-2019) using **Python and** used a **Jupyter Notebook** for the visualization.
- Cleaned data, removed missing values, and detected outliers with **Z-scores**. Applied **PCA(Principal component analysis)** for dimensionality reduction **(95.73% variance retention**).
- Aggregated and visualized the data by using **NumPy, pandas, matplotlib, and seaborn**

WORK EXPERIENCE

Sales Manager

Red Spirits and Wine |Nashville, TN *December 2022 - Present*

- Ordered, received, and reconciled inventory using **Excel**, improving stock accuracy.
- Created **customer satisfaction** surveys on Qualtrics, enhancing feedback and communication for better service.
- Managed merchandise pricing in NCR Counterpoint, ensuring accurate and up-to-date product listings.

Data Analyst Intern

IT Training Nepal | Kathmandu, Nepal *September 2021 – December 2021*

- Collaborated with the analytics team to perform **ETL** using **SQL** and **Python** for internal student performance and engagement datasets.
- Conducted exploratory data analysis (**EDA)** to identify learning trends, dropout patterns, and feedback sentiment, enabling data-driven improvements to training programs.
- Utilized **Power BI and Excel** to design dynamic dashboards and visual reports.
- Automated weekly reporting processes using Excel formulas, PivotTables, and Python scripts, reducing **manual workload by 40%.**

CERTIFICATIONS

Excel For Data Analytics Pandas for Data Analytics MySQL for Data Analytics Tableau for Data Visualization Microsoft Power BI Desktop Pandas For Data Analysis