RAVNEET SINGH

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INTERNSHIP

CELEBAL TECHNOLOGIES (REMOTE)

Data Science Intern June 2023 – August 2023

- Selected as an exceptional candidate from a competitive pool of **15,000 students**.
- Spearheaded comprehensive Exploratory Data Analysis (EDA) and masterfully engineered a robust supervised **machine learning model** in Python for Credential Risk Assessment, showcasing proficiency in logistic regression and random forest classification algorithms.
- Attained an exceptional **accuracy rate of 93.04%**, validating the precision and efficacy of the machine learning model and innovatively crafted an engaging, web-based application using **Streamlit**, enhancing user interaction and visual representation of the model's intricate insights.
- Recognized with a prestigious Silver Medal for exemplary participation and impactful contributions throughout the internship tenure.

EDUCATION

B.Tech. Computer Science Engineering C.G.P.A. 8.60
Lovely Professional University, Phagwara, INDIA April 2020 – Present
Higher Secondary Percentage 76%
MGN Public School, Jalandhar, INDIA April 2018 – March 2020

TECHNICAL SKILLS

- **Big Data -** Apache Hadoop | Derby Hive | Apache HBase
- **Analytics tools -** Microsoft Excel | Tableau Desktop | Microsoft Power BI Desktop
- **Programming languages -** MySQL | MongoDB CRUD | Python | R

PROJECTS

ADVENTUREWORKS SALES ANALYSIS | POWER BI: December 2023

- Led the implementation of four impactful dashboards for **AdventureWorks**, tailoring visuals for localized performance metrics.
- Customized visualizations and implemented slicers and filters to provide personalized views based on local criteria, elevated the user experience through the integration of **tooltips** and interactive elements, creating a more intuitive interface for stakeholders & fostering user engagement.
- Optimized dashboard performance and addressed data refresh challenges, ensuring timely **updates** without compromising efficiency.
- Developed robust **data models** tailored to business requirements, applying advanced transformation techniques for efficient reporting and analysis.

TELECOM CUSTOMER CHURN ANALYSIS | R: October 2023

- Meticulously conducted insightful **EDA**, employing robust data manipulation and visualization techniques in **R**, unravelling nuanced patterns and trends in Telco customer churn data.
- Executed precise min-max normalization on numerical features, coupled with meticulous **feature engineering**, enhancing the predictive power of models and ensuring data integrity.
- Implemented a strategic ensemble of machine learning models, including Logistic Regression, Decision Tree, Random Forest, and Support Vector Machine (SVM), showcasing adeptness in algorithmic selection and model diversity for accurate customer churn predictions.
- Conducted a strategic comparison of model performance **metrics**, emphasizing the paramount importance of recall, and delivered a thoughtful recommendation, positioning the optimal choice for minimizing missed churn cases in customer retention strategies with **82%** accuracy and **56%** recall.

DANNY CASE STUDY | SQL: August 2023

- Conducted in-depth data analysis using SQL, applying advanced **queries** and aggregations to derive meaningful insights from large datasets.
- Developed optimized SQL scripts for efficient data retrieval, transformation, and loading (**ETL**) processes, contributing to enhanced data processing speed.
- Implemented complex **Joins** and **CTE** to integrate diverse data sources, enabling comprehensive analysis and facilitating **data-driven** decision-making.
- Designed and executed SQL queries for exploratory data analysis, uncovering trends, patterns, and anomalies to support informed business decisions.

ROAD ACCIDENT ANALYSIS | TABLEAU: April 2023

- Engineered visually **captivating** and insightful dashboards for road accident analysis, transforming complex data into an easily understandable format.
- Integrated geographical data seamlessly into Tableau, enabling precise **geospatial** analysis of road accidents. Identified high-risk **zones** and visualized trends across diverse locations to inform strategic decision-making.
- Applied Tableau for in-depth **time-series** analysis of road accidents, revealing patterns and trends across varying time intervals. Extracted actionable insights critical for evidence-based decision-making in road safety initiatives.
- Architected interactive Tableau dashboards, empowering users to **dynamically** explore and filter data. Provided a user-friendly interface, fostering stakeholder interaction and facilitating insightful decision-making in accident analysis.

EXTRA-CURRICULAR ACTIVITIES

- Distinguished recipient of the **Microsoft Learn AI Skill Challenge** award in August 2023, showcasing exceptional proficiency in artificial intelligence.
- Actively engaged in the cutting-edge **Data Brickswar** 2023, demonstrating a keen interest in the latest advancements in data-related competitions.
- Secured a commendable runner-up position in the **Literary Event** of 2022, highlighting eloquence, creativity, and a passion for literary pursuits.

CERTIFICATES

- **Google Advanced Data Analytics |** Google September 2023
- **Data Visualization Using Tableau |** University of California, Davis April 2023
- **Microsoft Power BI Desktop for Business Intelligence |** Maven Analytics December 2023
- **SQL for Data Science |** University of California, Davis April 2023