DHRUV GUPTA Boulder, CO

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EDUCATION

Master of Science in Data Science – *University of Colorado Boulder, USA: GPA: 3.9/4*   **Aug 2023 - May 2025**

Machine Learning (ML), Statistical Methods, Ethics in Data Science, Data Mining, Cybersecurity, Information Visualization.

Bachelor of Technology in Computer Science Engineering - *Amity University, India*   **Aug 2015 - May 2019**

Mathematics (Linear Algebra, Partial Differential Equations, Calculus, Discrete Math, Statistics), Data Structures and Algorithms, Database Management Systems.

RELEVANT WORK EXPERIENCE

Data Engineering Analyst – *Accenture Solutions Pvt. Ltd.*   **Sept 2019 - July 2023**

- Designed and Implemented Google BigQuery store procedures to manage data processing for multinational hypermarket chain.
- Automated store procedures and triggers in ETL pipelines using Python, Apache Beam, and Airflow, resulting in a 60% reduction in manual queries.
- Integrated data from Snowflake, IBM DB2, and SQL Server into a data warehouse for streamlined dashboard generation in Power BI.
- Led and supervised a team of 3 junior engineers on a project transitioning from SAP Business Objects to Power BI report dashboards, resulting in a 20% reduction in report processing time.
- Reduced the need for manual intervention during outages by automating shell scripts job fixes, resulting in time savings of approx. 50 hours per month per team.

PROJECTS

Sentiment Analysis for Apple Vision Pro: *Natural Language Processing, Clustering, Naïve Bias, Decision Trees, SVM, Regression*

- Analyzed overall sentiment towards the product using customer feedback data from Reddit.
- Evaluated various machine learning algorithms and identified SVM as the most effective for developing a sentiment analysis model, achieving a 23% increase in accuracy compared to other methods.

Furnace-Sensor-Classifier: DASSA Hackathon – *Python, Supervised Learning – Random Forest Classification*

- Implemented random forest classification model that achieved a high accuracy of 96.7%, enabling precise prediction of bad cycles.
- This accuracy contributes to a significant reduction in maintenance costs, resulting in a savings of 16,260 USD per cycle and preventing additional losses associated with extra labor costs and increased black dross disposal expenses.

Banknote Authentication: *Python, Supervised Learning- Logistic Regression, SVM, Random Forest Classification*

- Developed a classification model demonstrating the efficacy of multiple machine learning models (Logistic Regression, Random Forest, and SVM) in combating counterfeit currency.
- The research successfully addressed the objective, revealing SVM as the most successful method with a 10 % increase in accuracy over other algorithms in detecting counterfeit banknotes.

English Premier League Data Analysis: *Data Analysis, Hypothesis Testing, Correlation Analysis, Web Scraping, Python*

- Conducted thorough analysis on data spanning the previous five seasons of the English Premier League (EPL), emphasizing the dominant performance of Manchester City and the resurgence of Arsenal.
- Identified the team exhibiting the highest average goals scored per year, while spotlighting clubs consistently exceeding expectations with superior win percentages.
- Rejected the hypothesis presented on the Manchester City's official website regarding Arsenal's average goal count of 2.31.

ACHIEVEMENTS

Pinnacle Award: Rising Star Category- FY 22 Q1- Mar 2022

Awarded pinnacle award for acting as the main point of contact and successful completion of SAP BO to Power BI conversion project.

Accenture Celebrates Excellence (ACE) Award- FY21 Q3 - Aug 2021

Received recognition for automating error resolution process saving 600 manual hours.

SKILLS AND CERTIFICATIONS

Languages and Libraries: SQL | Python (Matplotlib, Seaborn, Pandas, Numpy, Scikit-Learn, NLTK, BS4) | R | Bash | DAX | Power Query |Power Pivot | Google BigQuery|.

Data Science: Data Mining | Web Scraping | APIs |Exploratory Data Analysis | Statistical Hypothesis Testing| Dimensionality Reduction | Clustering and Association Rule Mining | Regression Analysis | Classification | Natural Language Processing (NLP) | Problem Solving | Agile Methodology.

Platforms & Certifications: Google Cloud Platform | Google Cloud Storage | Microsoft Azure | Microsoft Power BI | Apache Beam | Apache Airflow | MS Excel | MS Office | Microsoft Azure AI Fundamentals AI-900