Tushar Babbar

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EDUCATION & QUALIFICATIONS

The University of Warwick, MSc Data Analytics   **October 2021 – October 2022**

- Modules: Foundation of Data Analytics, Data Mining, Visualization, Natural Language Processing.
Result – Merit (Obtained)

University Of Texas, Austin/Great Lakes, PGP Data Science   **December 2020 – November 2021**

- Modules: Data Visualization (Tableau), Predictive Modelling, Data Mining, Machine Learning, SQL
Result – First Class (Obtained)

St. Stephen's College, India, BSc. Computer Science   **July 2017 – August 2020**

- Modules: Statistical Software R, Probability and Statistics Transportation and Network Flow Models
Result – First Class (Obtained)

WORK EXPERIENCE

AlliedOffsets, London, Carbon Market Data Analyst   **September 2022 – Present**

- Achieved an unprecedented 93% accuracy in carbon credit price estimates, establishing a new industry standard and providing clients with real-time market insights, leading to significant financial triumphs.
- Pioneered the world's first groundbreaking rating algorithm that revolutionizes traditional company assessments, affording our clients an unmatched competitive advantage in selecting environmentally responsible partners.
- Spearheaded a monumental database overhaul, propelling it to deliver an astonishing 70% performance boost, enabling lightning-fast data access for data-driven decisions.
- Pioneered an innovative project liquidity rating algorithm (1-10 scale) for over 30,000 VCM projects, ushering in a new era of market insight and revealing invaluable market insights for clients to confidently seize untapped opportunities.

Computer Base, India, Analyst   **June 2020 – September 2021**

- Contributed significantly to the "Client Acquisition Project" at Computer Base, India, which involved leveraging festivals and various promotional offers to drive sales and expand the customer base, resulting in a significant increase in revenue.
- Collaborated with the sales team to develop innovative strategies and campaigns that effectively targeted potential customers and maximized conversion rates, demonstrating a strong aptitude for creative problem-solving.
- Provided comprehensive data analysis and insights to support the project's success, leveraging key metrics and trends to optimize marketing and sales efforts.
- Received recognition from the CEO for outstanding contributions to the project, highlighting a track record of delivering exceptional results and driving business growth.

PROJECTS

World-Leading Carbon Credit Price Prediction Model   **April 2023 – August 2023**

- Orchestrated the development of a trailblazing carbon credit price prediction model using Machine learning, specifically tailored to the world's most expansive and intricate voluntary carbon market database.
- Employed a comprehensive approach by utilizing a wide array of regression models from around the world. Rigorously evaluated and selected the optimal model, resulting in an unparalleled 93% prediction accuracy, and establishing an undisputed industry standard.

Project Liquidity Rating Algorithm   **March 2023 – July 2023**

- Engineered a groundbreaking algorithm that bestows a decisive 1-10 liquidity score upon more than 30,000 VCM projects, setting a new industry benchmark.
- Leveraged advanced data analytics to meticulously weigh crucial attributes, including but not limited to credits retired within the last 12 months, total price inputs, rating agency affiliations, and vintage data.
- Innovatively introduced a Project Activity Index Tracker, revolutionizing project assessment by amalgamating weighted attributes and empowering clients with a definitive grasp of project liquidity and dynamism, reshaping the landscape of decision-making within the Voluntary Carbon Markets.

Air Quality Prediction of Delhi   March 2022 – September 2022
- Instituted a novel machine learning prediction model to forecast Delhi's Air Quality for future from AQ situations before/during/after covid lockdown achieving an unrivalling 85% accuracy for predictions
- Used techniques like Linear Regression, Feature Engineering (PCA), Neural Network, LSTM, Time Series Forecasting using Python

Prediction of Cellular Composition   January 2022 – March 2022
- Engineered a machine learning model that uses training data (patch images with given cell counts), predicting cell counts of each type in test images using Neural Networks with 70% accuracy.
- Used techniques like Regression, Clustering, Classification, Feature Engineering (PCA), Neural Network using Tensorflow and Python.

Capstone Project: Life Insurance Sales   November 2021 – January 2022
- Programmed a predictive model using machine learning for the Insurance firm with 80% accuracy.
- Revamped the client's performance, to upscale the poor performing agents for better results.

Sentiment Classification for Social Media   November 2021
- Illustrated a sentiment classifier for Twitter Semeval competitions, addressing different challenges pertaining to the extraction of meaning from text (semantics) with 65% accuracy.
- Used techniques like Linear Regression, Feature Engineering (PCA), Neural Network (LSTM), and Classifiers (SVM, Naïve Bayes) using PyTorch.

SKILLS & INTERESTS

Skills:
- **Technical Skills:** Proficient in Python/Google Colabratory (TensorFlow, Pandas, Scikit-learn), Advanced Excel (Power Query, Merging), Tableau, Power BI, LaTeX, PostgresSQL/SQL, Observable AI and R.
  Intermediate knowledge of Java and Linux, and basic knowledge of HTML, CSS, and JavaScript.
- **Analytical and Problem-Solving Skills:** Experienced in data cleaning, manipulation, and visualization. Able to identify patterns and trends in complex data sets to provide meaningful insights.
- **Communication Skills:** Excellent communication skills, with experience in presenting complex data insights to non-technical stakeholders.

Interests:
- Passionate about data analytics and exploring new technologies.
- Accomplishments: Badminton player with over 20 national championships and state champion. Active swimmer.

Certifications:
- Data Science: R Basics (EdX)
- Data Science and Business Analytics – University of Texas, Austin

Professional Memberships:
- Member of Institute & Faculty of Actuaries, UK, and Institute of Actuaries of India.

EXTRA-CURRICULAR EXPERIENCE

Team Leader, Commonwealth Games, 2022
- Led a team of 50 volunteers in organizing and carrying out badminton-related activities, attracting over 500 viewers.
- Chaired weekly team meetings, ensuring efficient communication and successful implementation of tasks.
- Delegated tasks to volunteers based on their strengths and abilities in problem-solving and communication.

University of Warwick, Men's Badminton Performance Team
- Represented Warwick University's men's badminton Performance team in BUCS, reaching the BUCS Cup Runner-Up position.

McDonald's Case Study Competition, Great Lakes / Team Head
- Led a team of 3 students to the Runners-Up position in a rigorous Data Science case study competition against 500 candidates.
- Received Special Appreciation from the Program Manager for outstanding performance.