

# 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.

University Of Texas, Austin/Great Lakes, **PGP Data Science**

December 2020 – November 2021

Modules: Data Visualization (Tableau), Predictive Modelling  
Data Mining, Machine Learning, SQL

St. Stephen's College, **BSc. Computer Science (CGPA:8.303/10)**

July 2017 – August 2020

Modules: Statistical Software R, Probability and Statistics  
Transportation and Network Flow Models

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## PROJECTS

**Air Quality Prediction of Delhi**

March 2022 – September 2022

- Instituted a machine learning prediction, forecasting Delhi's Air Quality for future.
- Yielding high accuracy from AQ situations before/during/after covid lockdown.

**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.

**Capstone Project: Life Insurance Sales**

November 2021 – January 2022

- Programmed a predictive model using machine learning for the Insurance firm with 80% accuracy.
- Revamped on 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.

**Data Visualization, Tableau, Visualizing Insurance Claims**

September 2021

- Formalized Interactive Dashboards, proposed high-level Insights for the CEO of Insurance Company to drive the company's policymaking.

**Time Series Forecasting, Python, Forecasting Wine Sales for ABC Estate Company**

August 2021

- Launched and analyzed multiple forecast models for two different products of a particular Wine Estate.
- Proposed the optimum forecasting model to predict monthly sales for the next 12 months along with appropriate lower and upper confidence limits.

**Machine Learning, Python, Election Exit Poll Selection and USA Presidential Speech Analysis**

July 2021

- Integrated 2 case studies: Vote Prediction and Text Analysis
- Predicted the likelihood of an individual's voting using Natural Language Processing techniques.

**Predictive Modelling, Python, Gems and Holiday Package Prediction**

June 2021

- Combining 2 cases-studies: Gems Price Prediction and Holiday Package prediction simplified company insights using model using Supervised and Unsupervised techniques of machine learning.

**Data Mining, Python, Bank Customer Segmentation and Insurance Claim Prediction**

May 2021

- Simplified customer segmentation and claim prediction using concepts of Clustering, CART, Random Forest, Artificial Neural networks with 78% accuracy.

**Advanced Statistics, Python, Salary Analysis on College Admissions Data**

April 2021

- Redesigned the Salary Analysis with concepts of Exploratory Data Analysis, Analysis of Variance, and Principal Component Analysis with 85% accuracy.

## WORK & LEADERSHIP EXPERIENCE

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ZI Media, India, **Digital Connect Program** July 2020 – August 2020

- Collaborated with 15 team members to deliver Client Requests worth \$100k in 1 month.
- VDO.AI to gain insights, calculated CPM, website traffic using google analytics, advertisement selections.
- Identified user experience issues, application enhancements opportunities, and scheduled follow-ups with the clients to enhance user experience.

Taken Mind, India, **Global Internship Program** November 2019

- Participated in the design and planning exercises for future product rollouts for Consumer Goods.
- Adhered to critical deadlines and assessed effectiveness of work deliverables, initiation with client meetings.
- Being a part of the global internship program, worked on performing Data Analysis operations using Python.

Life Insurance Corporation of India, Dehradun (India), **Summer Intern** May 2019 – July 2019

- Worked on Data Valuation process, D-Return and Life underwriting process, and various other allied statements.
- Getting an insight into Mortality and factors affecting it.
- Initiated effective dialog and provided any feedback for further enhancement.

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## EXTRA-CURRICULAR EXPERIENCE

University of Warwick, **Men's Badminton Performance Team** October 2021 – Present

- Member of **BUCS**, representing Warwick university's men's badminton Performance team.
- BUCS Cup Runner-Up.

McDonald's Case Study Competition, Great Lakes. / **Team Head** Jan 2021

- Led a team of 3 students to a rigorous Data Science case study competition against 500 candidates.
- The team backed the Runners-Up position.
- Special Appreciation from the Program Manager for the team's performance.

St. Stephen's College in Delhi / **Captain Men's Badminton Team** Jan 2019 – July 2020

- Led a team of 6 to university Semi-finals.
- Received Special Awards and College Colors for performance in Badminton.

St. Stephen's College in Delhi / **Block-In Charge, Cultural Events** July 2019 – July 2020

- Planned St. Stephens College's biggest event with the Student Council.
- Led a group of 150 members of Mukarji west for 3-day inter-block events to a successful win.
- Performed for the Mukarji West Block in sports, dance, music, drama teams.

North Zone Team in Uttarakhand (India) / **Captain Men's Badminton Team** Nov 2017

- Led a team of 8 to Inter-Regional Championships to a successful win.

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## SKILLS & INTERESTS

- Languages: English (native), Hindi (native).
- **IT:** Python, Excel, Tableau, LaTeX - **Proficient**, SQLite/MySQL, R, Java – **Intermediate**, Linux, HTML - **Basics**
- Interests: Badminton (Participated - 20 Badminton National Championships, State Champion), Swimming, Dance.
- **Member – Institute & Faculty of Actuaries, UK, and Institute of Actuaries of India.**
- **Certifications:** Data Science: R Basics (EdX).