

# BREN MATHEW

DATA SCIENCE | DATA ANALYTICS | BUSINESS INTELLIGENCE | DATA VISUALIZATION

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## EDUCATION

### Pace University, Seidenberg School of Computer Science and Information Systems

New York, NY

Master of Science (MS) in Information Systems | **Concentration:** Data Science | **GPA:** 3.78

May 2025

**Relevant Coursework:** Python | Database Management | Big Data Analytics | Business Data Telecommunications

### Mumbai University

Mumbai, India

Bachelor of Engineering (BEng) in Information Technology | **GPA:** 3.2

October 2020

**Relevant Coursework:** Artificial Intelligence (AI) | Machine Learning (ML)

## TECHNICAL SKILLS & CERTIFICATIONS

**Programming Languages:** Python (NumPy, Pandas, Matplotlib, TensorFlow, AI/ML libraries), R, SQL

**Database Management:** MySQL, SQLite

**Machine Learning Algorithms:** Random Forest, Decision Tree, Naive Bayes, Linear Regression, K-Means, Gradient Boosting

**Data Visualization Tools:** Tableau, Power BI, MS Office

**Certifications:** Data Analysis with Python- FreeCodeCamp (2020)

## VIRTUAL WORK SIMULATIONS

### Cognizant, Artificial Intelligence Job Simulation

August 2024

- Imported the Scikit-learn library to train the RandomForestRegressor algorithm model, used the mean absolute error (MAE) evaluation metric to predict the estimated stock price, resulting an average MAE of 0.42
- Performed feature engineering to boost the predictive power of the ML model, trained the model using cross validation technique by testing on several random samples of data, resulting in higher accuracy.

### British Airways, Data Science Job Simulation

September 2023

- Performed exploratory data analysis & ETL on user review data using Python, scraping & analyzing data to identify user sentiments, loading cleaned dataset in Random Forest Classifier to predict customer purchase behavior.
- Fine-tuned algorithm features to give greater weight to factors with higher influence on user reviews, yielding 86% predictive accuracy.

## ACADEMIC PROJECTS

### Fabric Defect Detection using Python

June 2023

- Created Python script to analyze images of fabrics & identify defects, including incorrect & missing patterns, allowing users to eliminate need for manual inspection & automating textile quality assurance process.
- Utilized OpenCV for fabric segmentation & defect detection, implementing contour detection for precise defect localization to achieve a 30% decrease in false positives.

### 3D Fine Art E-commerce Website

August 2019 – April 2020

- Collaborated in a group of three to develop a website using Python to enable people to customize and print personal desired images on objects like mugs, pillow covers and mobile phone cases.
- Authored and posted a publication in the [International Journal of Research in Engineering, Science and Management](#) detailing the research that went into developing the website.

## PROFESSIONAL EXPERIENCE

### Bristlecone

Mumbai, India

Associate Consultant

October 2020 – September 2022

- Configured and maintained digital signatures on the production environment serving 100+ users.
- Planned and coordinated disaster recovery drills to test redundancy by taking control of IT production servers and migrating the data from primary to secondary IT servers.
- Extracted and cleaned data from SAP in MS Excel, then used data modeling to create the client's monthly business reports which were presented to senior leadership, enabling data driven decision-making.
- Executed licenses, patches, kernel upgrades, configuration and troubleshooting for 20+ SAP applications annually.

### Reach Technologies

Mumbai, India

International Business Development intern

May 2019 - August 2019

- Expanded the company's existing database by identifying over 400 new international prospects to increase sales targets.
- Generated daily reports by compiling and analyzing potential customer data using MS Excel for use by the sales team.