

# Faiz Khwaja

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## EXPERIENCE

### Staples Inc., Associate Data Scientist – Framingham, MA.

June 2023 – Present

- Developed and implemented data-driven solutions for industrial engineers, resulting in a **25% improvement** in fulfillment center design efficiency and a **15% reduction** in operational costs.
- Engineered a resilient data pipeline using Azure Data factory, enabling **hourly integration** of warehouse data into Snowflake for improved operations.

### Staples Inc., Data Scientist – Supply Chain Co-op, Framingham, MA.

July 2022 – January 2023

- Performed Data Wrangling and developed a **Power BI** dashboard that resulted in a **40% improvement** in inventory utilization.
- Built an application using Django and SQL that provided strategic recommendations which helped **free up 15%** space in the inventory.
- Held Bi-weekly meetings with Fulfillment Centers to help managers utilize the above applications to achieve maximum benefit.
- Conducted Data Analysis to analyze the inaccuracies in the forecasting model which predicts the daily outbound demand.
- Implemented a Time Series Model (replacing the above model) which helped in increasing prediction accuracy by **3%**.
- Wrote a Python script to promptly update data in PkMS, which is a real-time inventory tracking system.
- Handled Ad-hoc requests which involved writing Advanced SQL queries using **window functions** and CTEs.

### Cere Labs, Pvt, Ltd., Machine Learning Intern, Mumbai, India.

December 2019 – January 2020

- Developed a Deep Learning model using TensorFlow to automate text extraction from National ID images of clients.
- Improved the speed of data extraction from **160 seconds to 10 seconds** for a batch of 200 ID cards.
- Deployed the model into the existing Machine Learning pipeline using TensorFlow Serving by working with the DevOps team.

## ACADEMIC PROJECTS

### Spark Streaming with Twitter API, Northeastern University

July 2023

- Utilized **Apache Spark** Streaming to ingest and process a continuous stream of tweets from the Twitter API in real-time.
- Leveraged lambda functions and **RDD** transformations to cleanse tweets and extract relevant hashtags GitHub: [Spark Streaming](#).

### Book Recommendation System, Northeastern University

October 2022

- Scraped data using Google Books API.
- Implemented User Based, KNN, Item-Item, Content based, Popularity based models.
- User - Based Neural Network model predicted user's ratings **30% more accurately** than the other models.
- Developed a UI using **Django** that takes in users' information and recommends books. GitHub: [Book Recommendation](#).

### Movie Reservation Database Management System, Northeastern University

October 2021

- Designed and developed an efficient and scalable database in **MySQL** to store and manage movie reservations.
- Leveraged Flask API of Python to build a user-friendly interface.
- Provided analytics by performing Linear Regression to predict sales during weekdays and weekends. GitHub: [Movie Reservation](#).

### Drug Classification, Northeastern University

October 2021

- Implemented Decision Tree Classification model to recommend drugs based on users' information with 95% accuracy.
- Designed an end-to-end web application using **Flask API** and deployed it to **Microsoft Azure**. GitHub: [Drug Classification](#).

## EDUCATION

### Master's degree, Data Science

September 2021 – May 2023

Northeastern University, **Khoury College of Computer Sciences**, Boston, MA

GPA: 3.83

### B. Tech, Mechanical Engineering

June 2017 – June 2021

University of Mumbai, **Sardar Patel College of Engineering**, Mumbai, India

GPA: 3.8

## TECHNICAL SKILLS

- **Languages:** Python, R, SQL, C, C++, Spark, JavaScript, HTML.
- **Databases:** MongoDB, Microsoft SQL Server, Snowflake, PostgreSQL, Oracle.
- **Tools and Technologies:** Git, Power BI, Tableau, AWS (Lambda, S3), Azure, Postman, Hadoop (MapReduce), Docker Container.
- **Machine Learning Algorithms:** Linear and Logistic Regression, Ensemble Learning, Bagging and Boosting algorithms, SVM.
- **Coursework:** Machine Learning, Database Management System, Algorithms.

## PUBLICATIONS

- **Optimization** of Warehouse Management system using **AI and ML** ([JETIR](#)) August 2021
- **Statistical model** for selection of electrode parameters ([Key Engineering Materials](#)) September 2020