

## **SAMEEULLAH (SAM) BABAR**

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### **EDUCATION:**

#### **The University of Texas at Dallas**

**May 2022**

- Masters of Science in Business Analytics (Data Science Track)

#### **The University of Texas at Austin**

**August 2019**

- Bachelors of Arts in Economics
  - Minor in Mathematics

### **RELEVANT SKILLS AND COURSEWORK:**

- **Coding:** Proficient in Python, R, SQL, C++, C#, SAS, & Excel. Well versed in Linux, Hadoop, MongoDB, Power BI & Tableau, Speaks French.
- **Portfolio:** <https://github.com/fridchikn24?tab=repositories>
- **Relevant Coursework:** Applied Regression Analysis, Linear Algebra, Big Data, Applied Machine Learning, Database Design, Advanced Statistics
- **Models trained:** Random Forest, XGboost, PCA, NLP, K-Nearest Neighbors, Support Vector Machines, Robust Regression, Deep Learning

### **PROFESSIONAL EXPERIENCE:**

#### **Interloper INC: Data Scientist; Dallas, TX**

**January 2020 – present**

- Develop ETL processes on abstract data from a broad range of systems to conduct special research requests
- Collect, clean, and preprocess data from various sources, ensuring data accuracy and integrity
- Apply data mining, statistical analysis, and machine learning techniques to gain insights from large datasets.
- Deploy machine learning models into production environments and monitor their performance.
- Create informative and visually appealing data visualizations and dashboards to communicate findings
- Continuously refine and improve models to adapt to changing business needs.

#### **Project MALES: Assistant Site Coordinator; Austin, TX**

**August 2016 – May 2017**

- Mentored students in Middle Schools and High Schools in Austin ISD during their lunch periods
- Assisted Site Coordinators in organizing the mentoring sessions and coordinating with school officials
- Helped teach the Impact course to better our mentors
- Assisted in program development and expansion

#### **University Leadership Network: Peer Mentor; Austin, TX**

**August 2015 – May 2016**

- Guided Freshman cohort through their first year of college
- Supervised weekly small group sections elaborating on topics covered in a larger lecture for the cohort
- Recommended strategies for performing better both academically and socially
- Directed students to appropriate resources for issues

### **DATA SCIENCE PROJECTS:**

#### **"Impact of Guns on Crime in America"**

**Spring 2022**

- Examined the effect of concealed carry laws on crime in the United States from 1977 to 1999
- Built models such as Pooled OLS, Fixed Effect and Random Effect models to test the significance of Carry laws
- Analyzed data from all 50 states and the District of Columbia in Python

#### **"Telecom Churn Analysis"**

**Fall 2021**

- Researched factors affecting customer churn in the Telecom industry
- Built and trained various classifier models to predict churn and recommend the most applicable method
- Applied techniques such as Oversampling, Binary Logit, K-Nearest Neighbors, and Random Forests.

#### **"Researching the Regularity and Elements of Flight Delays"**

**Spring 2021**

- Examined flight data from 1.4 million flights to determine causes of significant flight delays in R
- Utilized Principal Component Analysis to examine potential causes of delays
- Analyzed and predicted the effect winter weather had on flight delays