**SHREYASH SHRIVASTAVA**

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# WORK EXPERIENCE

**BANK OF AMERICA, Plano, TX**

Analyst, July 2020 – Present

* Working with GT&O (Global Technology and Operations) to provide end-to-end technology and fulfillment to individual consumers, small businesses, middle-market businesses and large corporations.

## FIDELITY INVESTMENTS, Bangalore, India

## Machine Learning Intern, May 2019 – August 2019

* Worked as a part of Global Automation (GA) and Machine Learning team to solve a business problem involving advanced Anomaly Detection techniques.
* The day to day job involved communicating with the client-side project lead and extracting necessary information required to make accurate inferences about the data, validation of work with the manager and domain expert, and extensive research about the problem and its techniques.
* *Successfully solved the assigned problem*. The problem required the use of an ensemble of outlier detection algorithms, and I could increase the hit rate of the detection system by 14 times. This solution will have a multi-million-dollar impact on the company’s internal budget.

## UTSI, Arlington, TX

## Supplemental Instruction Mentor, Jan 2020 – May 2020

* Assisted a group of Supplemental Instructors (SI) in administrative protocols and procedures. Conducted weekly meetings to help with SI-faculty and SI-student relationship, Organized and gave speeches about product marketing and smart goal settings in accordance with SI job description. Understanding behavioral diversity and exuberating positive leadership were crucial components in facilitating the job position.

# EDUCATION

## The University of Texas at Arlington, Arlington, TX

*Computer Science, May 12, 2020*  GPA: 3.48/4.0

Relevant Coursework: Artificial Intelligence, Data Analysis and Modelling Techniques (Graduate level course), Introduction to Machine Learning, Data Mining, Machine Learning (PhD level course), Neural Networks (Graduate level course)

# PERSONAL PROJECTS

* **Personalized Wine Recommendation System** (01/19 – 04/19) <https://blog-ml.netlify.com/>

A Full Stack project built using Django framework for Python. It is an MVC architectural pattern, which uses URL mappings, Jinja logic, HTML5 and CSS3. The search feature is implemented using term frequency search algorithm, and also Elasticsearch. The data set is classified using Support Vector Machines and the content-based recommendation is run by K-means. The full implementation and required packages can be found on my GitHub, and the link to the live site is also available on my LinkedIn.

* **Machine Learning Algorithm Implementation** (11/18 – 04/19)

Self-implementation of basic Machine Learning algorithms from scratch. Linear Regression, Logistic Regression, Decision Tress, Random Forest, LDA, KNN, K-means and PCA in Python.

* **PCA Based Image Classifier** (01/19 – 04/19)

Used PCA for dimension reduction of a 25x25 animal image dataset. A KNN classifier is used distinguish the image in a 3-feature space, after extracting three principal components using PCA. Both the Machine Learning algorithms used are implemented from scratch.

* **Advanced Web SQL** (01/19 – 04/19) <http://shreyash.pythonanywhere.com/databases/query/>

Created a relational database using ER/EER model and implemented SQL search queries in a simple Web framework designed using Django. The default SQLite database of Django is replaced with SQL, and XAMPP is used as the web-server stack package.

– [*github.com/shreyash0023*](https://github.com/shreyash0023)*,* **Personal Website:** [*https://shreyashshrivastava.netlify.com/*](https://shreyashshrivastava.netlify.com/)

# HONORS

* Scholarships: President’s Charter, Vikram J. Bajaj
* Achievements: College of Engineer Dean’s List, UT Arlington Honors College

# SKILLS

* Python, Machine Learning Algorithms, Data Mining, Data Analysis and Modelling Techniques
* C, C++, C#, Java, SQL, XAMPP
* JavaScript, Node.js, React.js, Web3.js, HTML, CSS3, Django, Bootstrap