Shobair Abidi, EIT - Data Scientist

(484)716-6675 ● Shobair.Abidi@Gmail.com ● Linkedin ● Github ● Portfolio

Professional Summary

Data Scientist with experience using SQL, API's, and Python along with many, many libraries for Machine Learning. Experience working with Time Series, Tensorflow-Keras, NLTK, Spark and Dask. I'm also very good with visualizations and reports, communicating errors and findings, and taking ownership of my work where I always give it my all! After some years struggling to progress my career in Engineering, I pursued furthering my education and shifting my career towards Data Science, to expand on some skills and experience I already accrued in the past. With a technical background and some experience under my belt using Python and SQL, and having now refined my skills through the Data Science Immersion program at Thinkful and am eager to start flexing my new toolbox!

Proficiencies

- **Technical Skills:** Python, SQL, API's, Machine Learning - Supervised & Unsupervised, Data Cleaning, Feature Engineering, Microsoft Office, Tableau
- **Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scipy, Scikit-Learn, Statsmodels, Tensorflow/Keras, Spacy, NLTK, Gensim, pyramid-ARIMA

Projects

- **Predicting Midcap Stock Values for Short-Term Trading** **06/2020 - Present**
  - The main purpose of this research project is to create a Stock-prediction application to be used as a day-trading application to support investment decisions for beginners. The final, intended use-case for this model would be an optimized, automated, investor that would be able to perform multiple 'smart' decisions on trading. Once model integrity is established with a goal performance of 15% portfolio growth (average market return for both the S&P500 and Dow Jones Industrial Average in 2019)(Note: the projected market return for 2020 is around 6-10% , and the running 10-year average stays around 10-12%). The model will also keep a live, ranked list of top stocks to invest in as an additional output for investors that may not be comfortable using algorithmic trading.
- **Modeling Fire Safety Deficiencies in Nursing Homes** **05/2020 - Present**
  - The purpose of this project is to use Unsupervised Machine Learning techniques to determine whether or not there are patterns or correlations regarding how, why, and when certain deficiencies occur in nursing homes across the US.
- **Categorizing Patient Mortality to Identify High-Risk Patients** **04/2020 - Present**
  - The purpose of this project is to use Supervised Machine Learning techniques to determine what factors and symptoms of incoming patients make them more susceptible to death to the ongoing Covid-19 pandemic. This analysis is aimed to guide the difficult decisions on who requires the now limited resources of our health-care system.
- **Initial Analysis of Covid-19** **03/2020 - Present**
  - This project is a preliminary look into the data to help us understand factors that can influence the acceleration or deceleration of the spread rate. Because this disease has such a long latency period, it is severely contagious well before the patient becomes symptomatic, leading to a scenario where people are not able to receive care because of how flooded the medical care system is.

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Professional Experience

Fortna Inc.

- **Systems QA Engineer II** **01/2018 - 10/2019**
    - The responsibilities for this position are to analyze multiple aspects of conveyor systems, then developing and going on site to execute the test plans. I Have delivered and shown high levels of ownership while delivering the final system to the client. Over time I've also participated in multiple levels of client engagement and directed multiple streams of workflow throughout large projects to optimize the progression of the project ahead of building go-live while managing and coordinating multiple on-site efforts with all testing related activities.
- **Systems QA Engineer I** **02/2016 - 12/2017**
    - Learned the relevant systems and suppliers for the equipment used and software implemented in the projects. I learned and executed the basic functions of my position while learning the requirements to step up into greater leadership positions, including stepping into a Leadership role for complete system integration testing for a large client, while maintaining charge of the smaller processes to assure our teams could adhere to a strict schedule and coordination requirements.

Schweitzer Engineering Laboratories

- **Engineering Intern / Test Engineer (R&D Office)** **06/2009 – 08/2012** **08/2013 - 05/2014**
    - Responsibilities included the formulation and execution of Relay Functionality Tests, Integration Tests, and Regression Tests. In addition to the tasks I was responsible for, I also worked on optimizing the testing, data analysis, and calculating procedures by writing scripts and macros.

Education

Thinkful/Bloc - Philadelphia, PA

- **Data Science Immersion** **02/2020 - 07/2020**
    - This Program was an incredibly rigorous program, requiring a time-commitment of at least fifty hours each week for five months, where we got introduced to the basic theorems and statistics behind machine learning, and unlike other programs we also explored and implemented the practical application of the concepts we learned through projects.

Widener University - Chester, PA

- **Bachelor's Degree in Mechanical Engineering** **09/2013**
    - **Senior Design Project** – "ASME Design Competition - Remote Inspection Device"
        - Leading member for electrical design and controls systems, involving Adruino's open source platform. The main objective was to create the control and motion algorithms in **Python**. In addition to the omni-directional wheels, the device also included a basic robotic arm for the device to complete simple tasks.