

# Joshua Shamouil

## Data Scientist

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in <https://www.linkedin.com/in/joshua-shamouil/> k <https://www.kaggle.com/joshuashamouil/code>

### Professional Experience

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Oct 2021 – present  
New York, NY

#### **Quantitative Analyst in Pricing and Technology**, *Haven Technologies*

- Generate annuity pricing tools to calculate premiums given product constraints
- Create Python applications to automate and optimize actuarial pricing systems
- Automate testing to validate annuity and life insurance rates for production

Sep 2019 – Oct 2021  
Chicago, IL

#### **Marketing Statistician**, *CNO Financial*

- Saved \$500k developing classification ML models to drive marketing campaigns
- Designed and automated reports to analyze customer retention and performance
- Generated market opportunities by mapping geolocations of prospects, customers
- Led Purdue data science internship program to find cross sell opportunities

Feb 2019 – Sep 2019  
Summit, NJ

#### **Quantitative Analyst**, *Markov Processes International*

- Manage client projects in asset allocation, simulation, reporting, statistical analysis
- Product and Calculations Specialist in MPI's Stylus investment analytics software
- Proficient in automation of MPI's proprietary scripting languages

### Programming and Data Science Projects

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2022

#### **Wordle Solver**, *Web Application* 🌐

Using Python along with Flask, SQL Alchemy, HTML, and CSS I created an application that helps a user solve the Wordle puzzle by leveraging game mechanics and logic.

<https://joshwordlesolver.herokuapp.com/> 🌐

2021

#### **Face Mask Image Detection**, *ML Model* 🌐

Using image detection and machine learning I created a model to identify if a person is wearing a facemask in a given picture. In this notebook I explore the basics of the Keras, Convolutional Neural Networks, and image-classification modeling.

2021

#### **Pharma Sales Churn Model**, *ML Model* 🌐

In this model I leverage data cleaning, cross validation, and sci-kit learn to predict whether a pharmacy customer will make a purchase in the month of October using data we have from the preceding months.

### Education

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2018  
New Brunswick, NJ

#### **Master of Science, Statistics**, *Rutgers University*

Program: Financial Statistics & Risk Management

2017  
New Brunswick, NJ

#### **Bachelor of Arts, Mathematics**, *Rutgers University*

Double Minor: Economics, Statistics

### Interests

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**Freestyle Snowboarding, Cooking, Ultimate Frisbee, Kaggle, HS Reunion Committee, Volunteer Tutoring**