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# Sergey Mouzykin

Initiative-taking analytical mindset with a strong dedication for continuous learning and intellectual growth. Offering experience of collecting and preparing/cleaning data, applying statistical analysis to deliver valuable insights, and building predictive models using solid Python programming skills.

## SKILLS

- **Languages:** Python, R, SQL
- **OS:** Windows, Linux (Ubuntu 18.04)
- **Frameworks/Libraries:** Pandas, NumPy, SciPy, Statsmodels, Sci-kit Learn, NLTK, Matplotlib, Seaborn, Plotly, Flask
- **Technical Skills:** Data Collection, Data Wrangling/Cleaning, Exploratory Data Analysis (EDA), Statistical Analysis, Regression, Classification, Clustering

## DATA SCIENCE PROJECTS

**DISASTER RESPONSE** - <https://github.com/sergatron/disaster-response-project>

NOV 2019

- Utilized frameworks such as NLTK and Scikit-Learn to perform ETL, build ML pipeline, and deploy ML model to a local web application.
- The ML pipeline processes 26,000 raw text messages using NLTK and Scikit-Learn to build a multioutput classification model.
- Maximized F1 score through feature engineering and parameter tuning.

**SOLAR ARRAY COST PREDICTION** - [https://github.com/sergatron/projects/tree/master/solar\\_array](https://github.com/sergatron/projects/tree/master/solar_array)

JULY 2019

- Analysis revealed a trend of declining national average installation costs of about 30% since 2009 peak.
- Predicted the cost of a residential solar panel array using a ML pipeline built using Scikit-Learn.
- Evaluated multiple regression models (Ridge, RandomForest, GradientBoosting) and optimized the pipeline to minimize the RMSE and MAE.

## EXPERIENCE

**FIELD ENGINEER**, CERTUS CONTROLS, LLC, NEW YORK, NY

SEP 2014 – PRESENT

- Implementation of HVAC control strategies and development of graphical controls to accommodate the operator/end-user in high value Manhattan buildings.
- Managing and improving client relations, collaboration with clients to address concerns, troubleshoot, and resolve technical issues.
- Ensuring successful project completion, including time/resource management and training new staff members.
- Identifying areas of improvement and providing recommendations to management.

## EDUCATION

**B.S Mechanical Engineering**, Hofstra University

May 2011

**Introduction to Data Science**, Springboard – Certificate

Jan 2018

**Python 3 Programming**, Coursera – Certificate

May 2019

**Data Science Nanodegree**, Udacity – Certificate

March 2020