



Adrian J. Silich

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Skills

Languages: Python, SQL, PySpark (Scala)

Frequently Used Modules: Scikit-Learn, XGBoost, LightGBM, PyTorch, Pandas, NumPy, Matplotlib

Data Science Tools: Azure, Databricks, MLFlow, Data Visualization (Tableau + PowerBI), Cloud Services, Excel

Areas of Strength: Time Series Forecasting, Machine Learning, Statistics, Probability, Neural Networks, ML/NN/AI, Acquisitions, Real Estate

Work Experience

JLL Technologies (NYSE: JLL); Los Angeles

Data Scientist II

November 2022 - Present

- Built a time series forecasting model to predict Capital Markets monthly income. Cross-validated between multiple models (SARIMA, TBATS, XGBoost, LightGBM). Settled on a hybrid tree-based model with featured engineered in economic trend data. Used Hyperopt Bayesian hyper-parameter optimization with a custom expanding window objective function to minimize loss. Improved the previous model's average prediction error from 24.79% to 3.96%
- Built the data analytics side to a JLL exclusive deal room platform that replaced multiple facets of Salesforce, RCM, Revere, and other 3rd party applications, bringing them into one place. Cut costs from \$6 million/year to roughly \$40k/year, with a 94% pilot user preference rate.
- Applied inferential statistics to an ML linear regression price recommendation product to determine accurate savings of up to \$257k+ per customer per year.
- ETL large data sets with upwards of 500+ million rows using cloud services.
- Script data aggregations and apply ML models (supervised, unsupervised, tree-based models) in Azure Databricks using MLFlow and a Python stack (PySpark, Scikit-Learn, Pandas, etc.).
- Handle complex SQL query requests.
- Design advanced functionality Tableau and PowerBI dashboards for non-technical stakeholders in either high-level positions (C-Suite, VPs, directors, etc.) or for 4,000+ on-the-ground producers across the world.
- Work amongst team members and for stakeholders across a variety of global geographic and cultural locations.
- Stand out for skill development, leadership, ability to operate independently, and UX/UI design skills.

The Morgan Group; Los Angeles

Data Analyst / Data Scientist

March 2021 – November 2022

- Operated as director of the acquisitions and data analytics departments for an LA based real estate fund.
- Built a bot to automate a tedious competitor analysis report by using a Python stack (pandas, Selenium, NumPy) to build an ETL pipeline that scraped 1,000s of rows of property data from the MLS.
- Organized and led 5+ department meetings weekly, addressing several teams, senior management, and company partners.
- Led product management for an in-house Slack plugin application that assisted junior project managers determined accurate rehab appraisal prices for homes across LA.
- Combined SQL, Excel, and VBA to automate dozens of regularly ran reports that the data department once spent 40+ hours a month manually updating.
- Wrote complex SQL queries in SSMS, cleaned data, interpreted multivariant trends, then presented them as easy to digest Excel and Tableau dashboards directly to company executives.
- Bridged communication between outsourced software developers and company partners in both industries' terminology.

Education

Boston University - May 2020

Latin Honors: cum laude