Sameer Shankar

Data Scientist | BSc. Combined Major in Statistics and Economics

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Skills

Languages: Python (Numpy, Pandas, Seaborn, Scikit-learn, Tensorflow, PyTorch, Non-conformist), Java, R, MATLAB, SQL, Apache Spark, Django, JSON, Heroku
Web: Canva, Adobe Premiere Pro, Adobe Lightroom, Adobe After Effects
Competencies: Data Cleaning, Data Visualization, Decision Trees, Random Forest, SVMs, Ensemble Models, k-means Clustering, Gradient Boosting, Time Series Analysis, Anomaly Detection, Bayesian Statistics, Neural Networks

Technical Projects

Machine Learning models to predict building energy consumption   01/22 – 04/22
- Trained ML models including Support Vector Machines, ElasticNet, XGBoost, LGBM Regressor, and Gradient Boost to get a competitive RMSE of 18.501 (Top 30 in Kaggle Leaderboards).
- Incorporated Hyperparameter Tuning, Principal Component Analysis, Correlation Analysis, KNN Imputation and Random Forest
- Used complex Python libraries such as Numpy, Pandas, Seaborn, scikit-learn

Regression analysis of crime in Denver neighbourhoods   11/21 - 12/21
- Used statistical concepts such as residual plots to transform variables in order to obtain lower RMSE and AIC values
- Developed model based on Adjusted-R^2 and Mallow's C_p as metrics, and validated the model using quantile-quantile plot in order to make our findings more robust

Visualization of an economic analysis   10/19 – 12/19
- Developed a Python application to visualize the average GDP, and other statistics for different types of Government from a given dataset

Experience

Analyst   06/18 – 07/18
Grant Thornton LLP

- Studied BMI reports in order to understand the macroeconomic landscape of Uganda
- Assisted in project which analyzed if Tata Motors should shift operations from Uganda to Kenya

Leadership / Volunteering

Greenbridge School of Open Technologies - Student   06/18 – 07/18
- Python Certification
- Java Certification

Uganda Model United Nations - Delegate   12/18
- Best Delegate Award