SHRUTIKA SANKAR

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SUMMARY

I am a professional with 8+ years of experience leveraging data to execute business solutions on behalf of Fortune 500 companies. I have experience using STATA, Python, VBA, SQL, and Tableau for data analysis workflows including data wrangling, model building, model validation, and data visualization techniques. Currently, I am completing the Springboard Data Science Bootcamp and seeking data science roles where I can work in a team setting to solve important business problems.

EMPLOYMENT

Residual Value Insurance (RVI) Group, Passenger Vehicles Department   **2015-2020**
Data Analyst, Business Intelligence   *Stamford, CT*
- Crafted statistical and economic models in Stata and Python; responsible for all model validation and data visualization.
- Created, automated, and managed index of auction used vehicle prices (UVPI) in USA and Canada using VBA and SQL server.
- Led 4 member team as Agile Scrum Master in quarterly risk assessment, forecast, and visual reporting for Lease Portfolio Accounts for 10 clients.
- Predicted likelihood of return and price if returned for each leased vehicle in client's portfolio based on client, industry, and macro-economic data.

Benevue, Quantitative Analytics Software Startup   **2013-2015**
Manager, Planning and Analysis   *Bridgewater, NJ*
- Managed customer databases and utilized data analytic tools to create business reports, project future sales growth, and develop risk assessments.
- Drove business strategic planning and analysis, including making presentations for weekly investor relations and board meetings.
- Designed QA systems including test strategy, test plans and test execution of stress & performance tests, regression tests, and UAT for desktop application and software deployed on peripherals.

Tufts University   **2011-2013**
Teaching Assistant (TA)   *Medford, MA*
- TA for Undergraduate Game Theory Class (School of Art and Sciences) for 4 semesters.
- TA for Graduate Level Micro Economics and Statistics Class (Fletcher School of Law & Diplomacy) for 3 semesters.

FEATURED PROJECTS

Using Machine Learning to Forecast Online Vehicle Prices (Springboard Capstone)   **2020-2021**
Developed hyperparameter tuned Random Forest Regression to predict online used car values ranging between $100 and $80,000.
- Python Tools: NumPy, Pandas, Scikit-learn, Seaborn, SciPy.
- Data Wrangling: techniques included box plot univariate graphing, scatter plot multivariate outlier removal, iterative imputation and variance scaling.
- Model Selection: Tested 8 supervised learning models, including Linear Regression Models (e.g., Elastic Net) and Tree Based Models (e.g., Random Forest).
- Compared models MAE and MPE performance on validation dataset to finalize model.

Index of Wholesale Used Vehicle Prices (RVI)   **2016-2018**
Using STATA developed a multivariate logistic regression to forecast market level pricing using individual vehicle prices twice a month.
- Data Cleaning: Tokenization, stemming, duplicate removal, IQR outlier identification and removal.
- Data Munging: Seasonal and inflation adjusting of prices, clustering vehicles by MMY, and mapping vehicle model to segments.
- Feature Selection: Multicollinearity checks, sequential forward variable selection, correlation selection, feature importance
- Data Visualization and Automation: Publication utilized Excel, PowerPoint, and PowerBI with automation accomplished using VBA
- Business Impact: Reduced prediction volatility by 20%; increased reporting frequency from once to twice a month, while doubling number of sub-indices.

EDUCATION

Springboard   **Tufts University**
Certification Data Science 2021   MS Quantitative Economics 2013
Data Science Bootcamp in Python focused on Machine Learning with modules
focused on supervised and unsupervised learning

                                                                                           Wellesley College
                                                                                           BA Economics 2011
Data Science Dojo   *Minors Math & South Asian Studies*
Certification Data Science and Data Engineering 2019

SKILLS

Languages: SQL, Python, Lyx, Eviews, STATA
Database Tools: MySQL, SQL Server, Advanced Excel (e.g. VBA), Access
Data Modeling: Machine Learning, Ensemble Methods (e.g. Random Forest), Gradient Boosting, Multivariate Logistic Regression, Factor Analysis, K-nearest neighbors, ANOVA
Data Visualization/Storytelling: Tableau, PowerBI, Gliffy, Seaborn (Python)
Past Experience With: Github, NoSQL, PostgreSQL, R Studio, Azure ML, CSS, Google Analytics