Noah Rezsonya

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Education

Southern Methodist University   *Dallas, Texas*
Master of Science in Data Science l Current GPA 4.0   *Class of 2019*

University of New South Wales   *Sydney, Australia*
Bachelor of Civil Engineering l GPA 3.4   *Class of 2014*

Experience

Data Analytics Intern   *San Jose, CA*
Visual Threat   *12/2018 - Present*

- Developed vehicle ECU stability report of idling Buick SUVs across different model years and also within the same model year between 2011 and 2018. The finished report will be used to support company's future white paper publishing.
- Increased the amount of effective vehicle-generated data by at least 40% and saved 30% of the time spent on data collection by refining the data collection strategy and writing corresponding specs.
- Transformed approximately 15 GB collected data from 55 Buick SUVs into readable hex traffic data by writing Python script.
- Identified changes of CAN message from each CAN ID and reported on changing patterns by comparing processed data with their baseline, corresponding brand new SUVs data under idling status, with Meld on Linux.

Data Science Intern   *San Francisco, CA*
Ambit Analytics   *09/2018 -12/2018*

- Evaluated NLP model performance for speaker identification and identified factors related to overall model performance so to improve the performance.
- Labeled speakers from approximately 120 hours audio data which were used as the ground truth for the performance evaluation with Audacity.
- Tested model performance and visualized the difference between labeled data and prediction output with Python scikit-learn classification metric and Python matplotlib.
- Found 3 major factors related to overall model performance including background noise level, voice similarity and random interruption during a conversation. Provided solutions to address each of issues.
- Increased the average F1 Score of the performance by 15.87% by implementing the proposed solution of random interruption.

Post-Graduate Structural Intern   *Chongqing, China*
JizhunFangZhong Engineering and Architecture   *10/2015 - 08/2016*

- Built a database of steel design parameters and costing by using MySQL.
- Supported development and management of scope, schedule and budgets for projects.
- Monitored construction progress against procurement schedule.

Skills

Analytic Tools	**Python**(pandas, numpy, scikit-learn), **R**(ggplot2, plyr, forecast, olsrr, caret), **SAS**
RDBMS	**MySQL**
Data Visualization	**Tableau**, **Python**(matplotlib), **Processing**
Machine Learning	**Regression:** Linear Regression, ANOVA, MANOVA
	Classification: Logistic Regression, SVM, k-NN, Random Forests, Ensemble Methods
	Clustering: k-Means, DBSCAN