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Guruprasad Venkataraghavan

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Technical Skills

Languages: Python (NumPy, SciPy, Pandas, Scikit learn, Statsmodels, OpenCV, matplotlib), R (ggvis, dplyr, caret), Scala (Spark), MATLAB, Java, C, SQL.
Frameworks/Tools: SPSS, Weka, Excel.
Other: Git/Github, Survey design & analysis, Time series modeling, signal processing methods, Machine learning methods

Project Experience

Student Intervention System - http://bit.ly/2bXHgeG *May 2016*

- Analyzed the data and developed a model to predict whether a given student will pass.
- Used Python (Pandas, NumPy, Jupyter notebook) for data analysis and manipulation.
- Predicted the best results with help of Scikit-learn and Logistic regression.

Creating customer segments - http://bit.ly/2bXHgeG *June 2016*

- Applied unsupervised learning techniques on product spending data to identify customer segments in the data.
- Performed PCA transformation to the data and implemented clustering algorithms to segment the transformed data.
- Produced the accurate results with the help of k-means clustering technique.

Song Recommender System - http://bit.ly/2bZ8rKK *July 2016*

- Built a song recommender system from using the input features from the users.
- Used matrix factorization to learn features of users and products to form recommendations.
- Recommended strong results with the help of collaborative filtering technique using GraphLab.

Analyzing Product Sentiment - http://bit.ly/2cbry1B *August 2016*

- Created models to predict a class (positive/negative sentiment) from input features.
- Implemented an actual classifier using i-python notebook and analyzed the accuracy of the classifier.
- Showed the most negative and most positive reviews for a particular product on amazon.com.

Work Experience

Institute of Research and Planning (NJIT)- *Research Assistant* Newark, NJ | *June 2016-Present*

- Planned, created surveys and performed analysis on it. (Excel, Survey tool, data visualization)
- Analyzed the suspension data and predicted the students to be suspended (Logistic regression, Python, Scikit learn).
- Predicted the response rate of students to surveys from data on survey emails. (Python, SVC, Statsmodels)

TATA Consultancy Services - *Systems Engineer* Pune, India | *July 2013-July 2015*

- Performed data cleaning and analysis on various automobile data (Excel and MATLAB).
- Developed various tools and scripts from process improvement through automation (Python and MATLAB).
- Collaborated with engineers to develop effective image classifiers (MATLAB, Bag of features, K-means clustering)

Education

Udacity – *Machine Learning Engineer Nanodegree* May 2016 - Present
Skill Speed – *Spark and Scala Practical Certification* June 2016 - Present
New Jersey Institute of Technology – *Computer Science, M.S.* August 2015 – Present
Sastra University-Electronics and Communication Eng. , B.Tech

Honors and Activities

- Best project in MATLAB – *Gold Medalist* *May 2013*
- Best employer of the project award - *TCS* *July 2013 - July 2014*