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Guruprasad Venkata Raghavan

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Technical Skills

Languages: Python (NumPy, SciPy, Pandas, Scikit learn, Statsmodels, OpenCV, matplotlib), R (ggvis, dplyr, caret), Scala (Spark), , SQL , MATLAB, C, C++, Java(J2EE, JSP, Spring, Hbernate, Struts, Servlets, Junit), Javascript(Ajax, Jquery, NodeJs,Angular), Go.
Frameworks/Tools: SPSS, Hadoop, Pig, Hive, Storm, Kafka, Elastic Search, Kibana, Mapreduce, Cassandra, MongoDB, Ansible, Git.
Other: Survey analysis, Agile development, Time series modeling, Database design, automation, A/B testing, Full Stack development

Project Experience

Social-payments-app- Spark Based Web Application *Fall 2016*

- An interactive application, that is efficient in fraud detection by finding the relationship between payer and receiver.
- Performed real time/batch processing of the transactions data, using Spark Streaming and SQL, Kafka, AWS cloud S3, ElasticSearch DB, Redis, Flask and AngularJs.
- Optimized search and query results with bidirectional search and combining query of elastic search and Redis.

Hotel Recommender bot system- NLP Chat Application *Fall 2016*

- An efficient chat application that starts a conversation, to recommend/book hotels to customers based on their preferences.
- It finds the intent of the user's request and identifies Location, Date, time and number of guests from the conversation.
- It uses Tensorflow's syntaxnet library and NLTK to perform dependency parsing and part of speech tagging activities using Google Cloud compute as the backend by remote networking with Python's paramiko package.

Self-Driving Car Training - Reinforcement Learning based Game *Summer 2016*

- This project aids a self-driving Artificial Intelligence agent to effectively reach its destination in allocated
- This project applies a Q-learning algorithm to find the best configuration of learning with consistently positive results.
- The game makes use of python, pygame and effective machine learning strategies.

Stock Price Indicator - Machine Learning based Android application *Summer 2016*

- A training interface and a query interface that accepts a date range and predicts the future stock value.
- The training data is taken from Yahoo finance, Bloomberg API and Quandl using Python, Pandas and SQL.
- A better user interface to predict stocks is built using Android and the process is documented.

Linux Kernel Programming - Customized Linux Kernel *Spring 2016*

- Modified and rebuilt a customized Linux kernel using C and Linux Assembly for the course.

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, Pandas, 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*

- Analyzed the automobile dataset and created a web interface by building RESTful API's. (Java, Hadoop, MongoDB).
- 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

New Jersey Institute of Technology – *Computer Science, M.S. (Machine Learning, Data Mining, R prog, Software engineering, Database Management Systems, Data Structures and algorithms, Operating systems)* Sep 2015 - Present
Sastra University-*Electronics and Communication Eng., B.Tech (Neural Networks, Signal Processing)* Jul 2009 – May 2015
Udacity – *Machine Learning Engineer* (Supervised, Unsupervised, Reinforcement Learning, Model Evaluation)
Udacity – Self Driving Car Engineer Nanodegree (Deep Learning, Computer Vision, Cognitive Technology)

Honors and Activities

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