Shreyas Govinda raju

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EDUCATION

May 2018 University of Southern California, Los Angeles

M.S, Computer Science

Coursework: Machine Learning, Applied Natural Language Processing, Artificial Intelligence,

Operating Systems, Databases and Algorithms.

May 2015 National Institute of Technology Karnataka, India

B.Tech, Computer Science and Engineering

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Javascript and Shell Scripting.

Web Technologies: Node.js, Bootstrap, Webapp2, Django, Flask and Prototype.

Applications: Apache Storm, Apache Hadoop, MapReduce, Kafka, Jenkins, Redis, d3.js, Heroku,

Google App Engine and MySQL.

WORK EXPERIENCE

Jan 2018 - May 2018 | Software Development Intern, Mathworks (Natick, USA)

- Developed a code signing tool to digitally sign executables of Mathworks product Installers.

- Integrated the script as a part of build process in Release Cycle.

Tech stack

 \mathbf{Perl}

May 2017 - Aug 2017 | Software Development Intern, Tintri (Mountain View, USA)

- Built a tool to highlight known fingerprint failures from Tintri platform test result suites.

- Analyzed different log files which are filtered with known patterns and time frame for analysis.

- Developed an end to end web application to accommodate easy analysis and reporting of bugs.

Tech stack

Python, Django, Bootstrap, JQuery

June 2015 - July 2016

Software Engineer, Samsung Research Institute Bangalore (Bangalore, India)

- Developed I/O modules in C++ on an automated caching software tool called Autocache.

- Created a web interface for the Autocache stand-alone application with prototype framework.

- Discussed implementation plan of flushing cached data into secondary storage drives.

- Led in the setup of debug environment for kernel debugging in RHEL.

Tech stack

C++, Jenkins, Visual Studio, Git

PROJECTS

• Machine Learning

- Implemented linear regression, multinomial logistic regression and KNN using Python Numpy libraries.
- Calculated the accuracy of each algorithm on the UCI Wine Quality dataset and MNIST datasets.
- Developed a multi-layer perceptron neural network with relu and softmax non-linearities.
- Implemented K-means algorithm to perform clustering and Gaussian mixture model for density estimation.
- Developed a binary classifier on email dataset from Enron investigation using Naive Bayes classification.

• Real Time Analytics

- Developed a real-time, distributed data processing application for Twitter tweets.
- Implemented topology linking Spouts and Bolts to evaluate top Trending Twitter feeds.
- Developed a python script to parse and visualise Top-N Hastags from Twitter URLs.
- Created a real time visualization using Redis, flask server and d3.js.

• Slack Bot

- Developed a resilient, micro-service based natural language aware bot for Slack app.
- Integrated NLP module wit.ai, to invoke updated query parameters based on application.
- Implemented geocoding and time calculations and also monitoring services.

• Finite State Automata

- Developed Soundex calculator, a phonetic algorithm from NLTK Finite State Transducers.
- It is used to represent and store names as pronounced in English.
- Constructed an FST to translate given Arabic numeral into corresponding French string.

• Author Identity

- Implemented authorship identification on lines of peotry written by the corresponding authors.
- Improved the accuracy of Naive Bayes classifier by performing feature engineering.