PRUDHVIRAJ TIRUMANISETTI

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EDUCATION:

Master of Science (Electrical Engineering) **May 2018**
San Jose State University, San Jose, CA
Bachelor of Technology (Electronics and Communication) **May 2016**
VR Siddhartha Engineering College, A.P, India

COMPETENCIES:

Programming Languages: Python, R, C, PHP, C++
Data Science Tools: Pandas, Numpy, Tableau, Scikit-Learn (sklearn), Scipy, Spark, MLlib, Tensorflow, Seaborn, Matplotlib, CUDA
Machine Learning: SVM, Naïve Bayes, Random Forest, Decision Tree, Linear regression, Logistic regression, Multi-Layer Perceptron, KNN, Neural Net, KMeans Clustering, Hierarchical Clustering, Mixture Models, Artificial Neural Networks, PCA
Big Data Ecosystem: Apache Spark, Hadoop, Map-Reduce.
Databases and Cloud: SQL, PostgreSQL, MongoDB, HBase
Tools: GIT, GitHub, Pycharm, Jupyter Notebook, Rstudio, Eclipse, VirtualBox, VMware
Web Technologies: JavaScript, Angular.js, Node.js, Express.js, HTML, CSS, Rest API
Operating Systems and Other Software: Linux –Ubuntu, UNIX (Mac OS, Solaris), Cent OS, Windows XP onwards.
Project Management: JIRA, Agile Methodologies – Scrum/Kanban Models

PROFESSIONAL EXPERIENCE:

SOFTWARE DEVELOPER, OCTONIUS Inc. **May 2017 – November 2017**

- Worked as a Software Developer at Octonius and responsible for Creating voice integration and VOIP Search Functionality.
- Experienced in integrating file transfer-based Search Engine along with Voice based search using Web-kit-speech Recognition API.
- Implementing Hot-Word functionality using Annyang.js and making a dynamic license agreement for end user data analysis.
- Worked on machine learning algorithm to predict the user-based recommendation based on the pattern analysis.
- Responsible for designing a test framework to validate the code changes before deploying on production servers.
- Worked on monitoring the software patch, testing, bug analyzing and providing a fix collaborating with other developers.
- Worked on design and development of critical voice functionalities by analyzing business requirements.
- Added new functionalities to the UI stack and worked on optimizing the Database of the Application.
- Experienced in Agile framework and Scrum Methodology.
- **Technologies used**: MEAN stack (MongoDB, Express.JS, Angular.JS, Node.js), RestAPI, Python, Vim, Linux, GIT, Atom.

IT Technician, Student Assistant, San Jose State University. **February 2017 – March 2018**

- Assist with Cisco router and switch configuration changes and equipment upgrades.
- Assist with deploying new Cisco switches to On-Campus Data Center.
- Worked on Cisco Prime to monitor the network devices, configuration management, scripting changes, and threat analysis.
- Assist in modelling the site blueprints by taking into consideration the RF parameters and thus deploy the access points.
- Experienced in TCP/IP Protocol Stack.
- Troubleshoot network problems for LAN and Wireless communications and security issues.

ACADEMIC PROJECTS:

Keyword Recognition of business on Yelp based on reviews - *Python, Jupyter Notebook, Sklearn* **SJSU, SPRING'18**

- Implemented Text mining-based keyword identification of business reviews on yelp based as a part of yelp dataset challenge.
- The model mines important keywords from good and bad reviews of texts and displays them in the search result for users to take a quicker decision on choosing options.

Movie Recommendation System using Machine Learning – *Machine Learning, Python, Jupyter Notebook, SKlearn* **SJSU, FALL'17**

- Implemented user-based collaborative filtering on MovieLens dataset of 1682 movies and 943 users.
- Calculated metrics like Euclidian Distance and Pearson Correlation score to make user-based recommendations.

Predict Survival on the Titanic – *Machine Learning, Python, Jupyter Notebook, Sklearn* **SJSU, FALL'17**

- Feature Engineering and data cleaning to handle non-numeric, missing and categorical values.
- Used Support Vector Classifier to train model and predict survival with an accuracy of 76%.

Slack Bot for Coursework Info – *Slack API, Python, Quepy, DynamoDB, AWS Lambda* **SJSU, SPRING'17**

- Built a question-answer chat bot against data stored in AWS DynamoDB and a Slack API.
- Defined regular expressions to match incoming natural language questions using NLTK tagger.
- Configured AWS API Gateways and deployed the business logic on AWS Lambda using Python-Lambda libraries.

Multiplayer Pong with in game chat application – *Pygame, Tkinter, Python, Socket-Programming* **SJSU, SPRING'17**

- Implemented game using the Python Pygame module and used Python standard interface module Tk GUI toolkit (Tkinter).
- The server-side and the client-side applications are developed using Python.
- Socket programming to support communication between involved clients during the session.

Develop a Load Balancing Algorithm for SDN using Floodlight controller – *SDN, Floodlight, Mininet, Python* **SJSU, FALL'16**

- Lead a team in developing and implementing a load balancing algorithm using POX controller.
- Was involved in debugging and developing the load balancing code.
- Developed and Implemented Dijkstra Shortest Path and round robin balancing algorithm.