San Francisco, CA (803) 238-8862   https://www.linkedin.com/in/vijendra-rana/

vijen1991@gmail.com   **VIJENDRA RANA**   https://github.com/vijendra-rana/

Software Engineer with passion for Machine Learning and Data Science.

TECHNICAL SKILLS (Languages and Tools)

- Python, R, C, C++, Java, MATLAB, TensorFlow, PYTORCH, Scikit-learn, Keras, SQL
- Apache Spark, MLlib, Hadoop, Jupyter Notebook, Spacy, NLTK, Git, Google App Engine, SAP

PROJECTS

General Chatbot Framework   July 2017 to Present

- Currently developing a Chatbot Framework using seq2seq encoder-decoder network. (PYTORCH)
- Utilizing 2 recurrent neural networks in conjunction to transform one sequence (Question) into another (Reply).

Recommendation engine for MovieLens 20M   July 2017

- Used Collaborative Filtering to predict the unknown ratings and help users in deciding which movie to watch. (APACHE SPARK)
- Utilized Matrix factorization algorithm ALS from MLlib. Got an RMSE score of 0.81.

Compiler for C language   Mar 2017 to April 2017

- Wrote grammar and supporting code for Declarations, Expressions, function definitions and control constructs for C language. (C, Lex, and Bison)
- Used Lex to tokenize and then bison to create a parser for our written grammar.

Image Classification with Convolutional Neural network   Mar 2017

- Implemented a model to classify images from the CIFAR-10 dataset (TensorFlow)
- Tried various configurations for Layers and Hyperparameters (Grid Search). Got an accuracy of 67 %.

San Francisco Crime Classification   Sep 2015 to Dec 2015

- Classified crimes into 39 distinct categories with very few features. (Scikit-learn Python)
- Implementation included feature engineering (creating log based and combinational Derived features) and then applied algorithms like logistic regression, Random Forest, SVM etc.

WORK EXPERIENCE

Duke Tip Trinity University   San Antonio, TX

Instructor (Introduction to Programming and Web Development)   June 2016 to July 2016

- Introduced 32 gifted 8th and 9th graders to programming (Python)
- Helped students in creating their own websites using Python, HTML, CSS and Google App Engine.

University of South Carolina   Columbia, SC

Teaching Assistant (Computer Science and Engineering)   Aug 2015 to Dec 2015

- Worked as a lab monitor for CSCE101 and helped more than 20 students a week with their doubts.

Accenture (Client Microsoft)   Hyderabad, India

Quality Analyst (SAP Sales and Distribution)   Nov 2013 to July 2015

- Part of Pricing team which is responsible for strategic decisions about various Offers and their prices.
- Responsibility includes creation of test plans, its execution, collaborating with different teams and towards the end of release participating in go/no go discussions.

Defense Electronics Application Laboratory   Dehradun, India

Intern (Communication Network Division)   June 2012 to July 2012

- Delivered a solution in C, which was used to synchronize the time of System (on LINUX platform RHEL) with the time received by CW46 GPS kit (based on Latitudes and longitudes).

EDUCATION

- University of South Carolina - Computer Science, ME   Columbia, SC| May 2017
- Graphic Era University -Electronics and Communication, BTech   Dehradun, India| June 2013

VOLUNTEER ACTIVITIES

- Thinking Globally Ambassador at USC, Here I have presented Indian Culture to more than 150 people.
- Taught life lessons and English in Devnar School for the blind as a part of CSR activity at Accenture.