Rahul Pande

linkedin.com/in/pande-rahul

Worcester, MA rspande@wpi.edu | 508-333-9986

OBJECTIVE

Seeking full-time opportunities from May 2020 in the field of Data Science with a focus in Machine Learning

EDUCATION

• Worcester Polytechnic Institute (WPI)

Master of Science, Data Science GPA: 3.88/4.0

Worcester, MA

May 2020

• Vishwakarma Institute of Technology (VIT, Pune)

Bachelor of Technology, Electronics and Telecommunication GPA: 8.59/10

Pune, India May 2015

COURSES

WPI: Deep Learning, Big Data Management, Statistical Learning VIT: Pattern Recognition, Linear Algebra

SKILLS

Programming: Python, R, SQL, Java Technologies: Hadoop, Spark, Lucene, Tableau, MongoDB, D3

Packages: scikit-learn, numpy, scipy, pandas, matplotlib, ggplot2, dplyr, caret, Dask, Tensorflow

EXPERIENCE

• Data Science Intern

Quincy, MA

National Fire Protection Association

June 2019 - December 2019

- Geospatial Analytics: Geocoding 150M+ addresses using Spark, Lucene and libpostal. Analyzing incident trends and defining response boundaries for Fire Stations
- Software Engineering: Deployed geocoding/reverse-geocoding APIs using Docker to facilitate consumption of services. Achieved 70% increase in speed with median distance <1 mile compared to Google Geocoding API
- Graduate Researcher (Independent Study)

Cambridge, MA

Takeda Pharmaceutical

January 2019 - May 2019

- Large scale deep learning on UK Biobank actigraphy and phenotype dataset (500K subjects)
- \circ Achieved 34.8 rmse and f1 score of .78 in predicting age and insomnia respectively from the actigraphy data using multitask learning with 1D CNN, LSTM, GRU
- Assistant at Academic and Research Computing WPI

Worcester, MA

August 2018 - June 2019

Developing and maintaining the website for Northeast Cyberteam (NSF Award Number: 1659377) to improve its ease of use (necyberteam.org)

• Product Analyst

Pune, India

Vuclip India Pvt. Ltd.

April 2016 - June 2018

Set up analytic processes and frameworks, and helped improve user engagement on the platform through effective use of machine learning.

- Complaints Prediction: Developed a Random Forest model to predict if a user will complain (cross-validation test recall of 0.79). Decreased complaints from 11% to 7% avoiding hefty penalties.
- Content Recommendation: Formed user clusters (k-prototype) based on the type and amount of content consumption and then recommended content based on collaborative filtering.
- Analytics: Holistic content performance analytics related to Original Series content at Vuclip. Mining market data to improve content production/acquisition strategy
- Data Engineering: Authored numerous Apache Airflow data pipelines to replace cron scripts which significantly reduced database locks, failures and execution time. Improved workload management on multiple servers

PROJECTS

- Music Generation with Neural Nets (WPI | March 2019): Generated synthetic music sequences (MIDI notes) using LSTM and GAN and outperformed \sqrt{n} randomized real sequences
- Blind Source Separation (WPI | December 2018): Separating mixed audio signals using Non-negative Matrix Factorization (NMF).
- Website Insights (Vuclip | 2017): Get insights on a web forum using Scrapy, NLTK and, D3.
- Android Development (Personal | 2013): Developed the official Android Application for VIT, Pune. Second rank in on-spot android app development competition.