Fei Liang

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Education

Master's Degree in Computer Science   *September 2015 – May 2017*
Washington University in St. Louis, St. Louis MO, USA   GPA: 3.40/4
Core coursework: Advanced Algorithms, Machine Learning, Data Mining, Cloud Computing with Big Data Application, Bayesian Methods in Machine Learning, Mobile Application Development

Bachelor's Degree in Intelligence Science and Technology   *September 2010 – July 2014*
Central South University, Chang Sha, China   GPA: 3.36/4
Core coursework: Data Structure, Advanced Mathematics, Artificial Intelligence

Projects

Image Classification of Dogs and Cats using Gaussian Process   *April 2017 – May 2017*
Washington University in St. Louis
Performed classification on labeled images containing dogs or cats with Gaussian Process.
- Worked on scripts to process the image data from multiple sources via CNN.
- Implemented singular value decomposition and statistical methods to extract useful features.
- Accomplished boosting linear regression's accuracy from 54.1% to 86.9% with Bayesian method.
Environment: Python, MATLAB, Keras, R

Rate Y: iOS Application Development   *October 2016 – December 2016*
Washington University in St. Louis   Team Project
An iOS application that allows users to rate each other based on their geographic locations.
- Led the project and contributed more than 95% of the code.
- Accomplished syncing and storing data between clients, Firebase real-time database and storage.
- Developed custom location service based on Mapkit and CoreLocation to enable users' interactions.
Environment: Xcode, Firebase, Swift, Git

Recommendation System Based on Netflix Rating Dataset   *April 2016 – May 2016*
Washington University in St. Louis   Team Project
Developed a system to recommend movies for users using collaborative filtering.
- Implemented MapReduce processes via python and Hadoop streaming to generate normalized data.
- Aided in implementing Pearson Correlation as the similarity measure for collaborative filtering.
- Boosted processing speed by migrating the project on Spark and PySpark.
Environment: Python, Hadoop MapReduce, Pig, Spark, PySpark

Summary

- **Languages:**
  - 4+ years of strong **Python** programming experience.
  - Experience with **Swift/SQL/C#/Java/HTML/CSS/JavaScript/jQuery/R/PySpark** for projects.
- **Frameworks and Tools:** Hadoop, Spark, Git, Unity, Xcode, Visual Studio, Sublime Text, Postgres.

Scholarship

The Second Prize Scholarship, Central South University   *2011 – 2014*