ABOLFAZL RAVANSHAD

Data scientist, Ph.D.

Phoenix, AZ

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SUMMARY

- 5+ years of experience in statistics, machine learning, and visualization
- Highly motivated and result-oriented
- Strong communication, leadership, and management skills

SKILLS

Programming: Python, R, MATLAB, C

Statistics: Linear regression, Logistic regression, Non-linear regression

Machine Learning: Convolutional neural network, Random forests, XGBoost, Lasso, K-nearest neighbors, Independent component analysis, Natural language processing

Tools: Jupyter Notebook, scikit-learn TensorFlow, Tableu, weka

Database: SQL **Other:** Git, Unix

EDUCATION

Ph.D. Computational Methods in Civil Engineering, 2014, University of Florida, *Gainesville, FL*

EXPERIENCE

Data Scientist   **2017**
Self-Training

- Twelve weeks of immersive self-training involving three data science projects
- Implemented CNN to classify letters in notMNIST dataset (4 GB), resulted in 93% accuracy with minimum fine-tuning
- Employed stacking ensemble approach for prediction of house prices in Kaggle competition (ranked top 10%)
- Employed XGBoost on features extracted from text and image contents to predict popularity of an apartment rental listing

Research Scientist   **2015 – 2016**
Fugro Consultant

- Developed applications and dashboards for preprocessing and statistical analysis of instrumentation data, resulted in saving over 50 man-hours monthly
- Designed and developed a SQL-based database for storage and management of roadway performance monitoring data

Postdoctoral Fellow   **2014 – 2015**
University of Florida

- Proposed and implemented an effective computational technique to extract 3D texture from stereo images resulted in more than ten publications in top-tier conferences and journals
- Mentored graduate students and taught undergraduate courses

CERTIFICATES

Deep Learning (Udacity), Machine Learning (Coursera), Statistical Learning (Stanford University), Scientific Computing (Coursera)