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Joe Jobscan

SKILLS

Python, Matlab, C++, Java, R, MySQL, Javascript, Jupyter notebook, PySpark, PyTorch, TensorFlow, Scikit-learn, Scipy, Pandas, numpy, Hadoop, Map/Reduce, Hive, Spark, HBase, Spark, AWS (SageMaker, ML, S3, Redshift), Agile, Scrum.

PROFESSIONAL EXPERIENCE

MACHINE LEARNING ENGINEER, Jobscan, Seattle, WA
August 2019 to November 2019

- Reporting, collaborating and consulting with the business Intelligence, data engineering and software development teams to identify key data architecture and define problem scopes.
- Examined an ETA algorithm that had been used to predict the arrival of railroad cars, analyzing its business value and identifying opportunities to improve business outcomes.
- Leveraged the use of machine learning techniques, predictive models, statistical tools and visual analysis to review and verify the integrity of sensor data and calculation of routes.
- Designed a strategic roadmap to identify business optimization strategies and improve the effectiveness of an existing product while developing a scalable long-term solution.

STUDENT RESEARCHER, University of Washington, Seattle, WA
August 2016 to August 2019

- Developed expertise in data science with a knack for math, statistics, data mining, machine learning, and optimization-based numerical methods; built skills in data gathering, data modeling, data preparation, data wrangling of complex and large data sets and creating ETL processes and data pipelines.
- Gained extensive quantitative research skills and established a practical experience building models and prototypes, designing, coding and optimizing products, and using machine learning algorithms and data mining techniques in more than three projects sponsored by organizations such as NIH, DARPA and QuintilesIMS. And resulted in 3 peer-reviewed publications.
- Formulated a statistical learning model for clustering hospitals with clustering homogeneity enhancement by 60% based on admission behavior and similarities among disease symptoms during admission decision; spanning feature selection, feature engineering, classification, clustering, regression, and spatial and time series analysis.
- Served as both a leader and an integral member of a team to collaborate on building strategic plans, timelines, writing proposal reports and performance metrics to gauge progress towards project and product development goals.
- Individually and collaboratively, collected and presented findings to audiences of varying degrees of technical expertise and business stakeholders.

TEACHER ASSISTANT, University of Washington, Seattle, WA
March 2016 to March 2017

- Coordinated and led in-class teaching for graduate and undergraduate students enrolled in the College of Science and Technology.
- Courses included the Knowledge Discovery and Data Mining graduate course, as well as the undergraduate course Mathematical Concepts in Computing.

EDUCATION

University of Southern California, Los Angeles, CA
09/2015-06/2017
Ph.D. in Computer and Information Science

University of Southern California, Los Angeles, CA
09/2013-06/2015
Master of Science Degree in Computer Science

University of California, Irvine, CA
09/2009-06/2013
Bachelor of Science Degree in Computer Science