

ROBERT SMITH

Volunteer Data Scientist

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SUMMARY

Have hands on experience in writing MapReduce jobs using Java, Managing Single node and Multi node Cluster Configurations. Writing Pig Latin scripts and pig commands, Configuring Zoo Keeper, Cassandra & Flume to the existing hadoop cluster. Experience in building predictive models using machine learning techniques. Performed importing and exporting data into HDFS and Hive using Sqoop, Hive queries.

SKILLS

Python, Matlab, Git, Data Analysis, Data Mining, Machine Learning, C++, Latex, Java, Scala, HTML, Hadoop, SQL.

WORK EXPERIENCE

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ABC Corporation - January 2015 – May 2015

- Analyzed MTA subway data and New York City census data to determine traffic flows and demographic patterns of New York City.
- Used Beautiful Soup to scrape publicly available movie data to better understand the relationship between box office performance and distribution company.
- Using sci-kit learn, ran linear regression and built a model of box office performance.
- Based on model, identified two distribution companies whose revenue outperformed peers.
- Used matplotlib and reveal.js to communicate results of research.
- Project McNulty Setup SQL database on cloud server, storing clients data for query analysis.
- Used Python's scikit-learn library to understand details of client telemarketing campaign.

Data Scientist

ABC Corporation - 2010 – 2015

- Created multiple projects including 1.
- PLANT LEAF SPECIES CLASSIFICATION Built artificial neural networks to correctly classify plant leaf species using binary images and a probabilistic framework of margin, shape, and texture features.
- Technologies used Python, Numpy, Pandas, Scikit-Learn, Scipy, Keras 2.
- CUSTOMER POTENTIAL PREDICTION Created a classification model that identifies customers with the highest potential business value based on their characteristics and activities.
- Technologies used Python, Numpy, Pandas, Scikit-Learn, XGboost 3.
- MOBILE USER DEMOGRAPHICS CLASSIFICATION Built a model to predict users demographic characteristics based on their app usage, geolocation, and mobile device properties.
- Technologies used Python, Numpy, Pandas, Scikit-Learn, Scipy, Keras.