Jvalin Dave

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TECHNICAL SKILLS

- Proficient: Python, Flask, Pandas, Scikit-learn, NumPy, MLib, C, SQL, MySQL, AWS (EC2, S3, Lambda, SWF), Git
- Exposure: PySpark, Hadoop, Java, Ruby on Rails, D3.js, C++, Jenkins, Heroku, PostgreSQL, JavaScript

WORK EXPERIENCE

HeavyWater Inc. | Machine Learning Engineer | Philadelphia, PA

Apr. 2017 - Nov. 2017

- Optimized datasets for machine learning algorithms by creating stratified 10-fold datasets in Python, achieving accuracy of 69% in classification of documents.
- Reduced execution time of optical character recognition (OCR) algorithm by over 50%, when replacing Java CLI with Java API, improving throughput by 2% and while reducing infrastructure cost by 7.5%.
- Implemented date extraction algorithm using Java, resulting in improving accuracy of date extraction by 17%.
- Automated AWS service infrastructure using Java, Python, EC2, Lambda, and S3, resulting in 25% reduction in processing time of insurance documents.
- Increased production throughput by 100% in 2 months by debugging 7 workflows using Linux commands and AWS Lambda to transfer data from EC2 instances to S3 buckets in order to avoid timeout failures.
- Led team of 3 engineers, minimizing overall cost of production by 20% and managed DevOps team based on agile development using CI/CD tools to maintain stable release of product on schedule.

Lumidatum Inc. | Machine Learning Engineer | Dallas, TX

Nov. 2016 - Feb. 2017

- Designed self-learning recommendation engine using Python, Pyspark, MariaDB and AWS S3 resulting to 5% increase in sales through providing better targeted products to consumers.
- Engineered data pipeline through daily extraction of 30,000 lines of text from log files utilizing Python and MariaDB, automating system to optimize preprocessing time by over 67%.
- Analyzed and designed new machine learning algorithm to calculate lifetime value (LTV) of a customer using Python, D3.js and Matplotlib, resulting in 40% more accurate prediction.

EDUCATION

Master of Science in Computer Science, University of Texas at ArlingtonMay 2016Bachelor of Engineering in Computer Engineering, University of PuneAug. 2013

SIDE PROJECTS

Healthometica | Software Architect | live

May 2016

Self-monitoring health system for University of Texas students to track effective remedies for treating daily issues.

- Architected platform using UML diagrams and analyzing technologies such as Java, JavaScript, MySQL, JDBC, and Lucidchart for prototyping to decide on most efficient tools.
- Designed schema for MySQL database and JavaScript UI with sketching and surveying 40+ university students.

E-mail Spam Detection | Machine Learning Engineer | code

Dec. 2015

Machine learning algorithm trained to analyze inbox emails to determine whether they are important or spam messages.

- Engineered e-mail spam detection algorithm using Python and MySQL, resulting in 82.6% average accuracy.
- Built training and testing data using random function to select rows to ensure split is unbiased using Python.
- Determined most efficient algorithm and built Naive Bayes Classifier on training data of 4,000+ emails from the ground up without the use of machine learning algorithms in Python.

Yelp Dataset Challenge | Machine Learning Engineer | live | code

May 2015

Predictive natural language processing (NLP) in text mining for locating most commonly used terms in Yelp reviews.

- Gathered over 1.8 million reviews utilizing Yelp API and chunking mechanism, refining reviews based on industry and place, and generating training and testing data for machine learning algorithm.
- Applied Naive Bayes Classifier in Python to build model to predict average rating with 54% accuracy.
- Discovered most probable terms occurring in 5-star Yelp reviews and their distribution over 50 million words.