VIDYA VENKITESWARAN

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EDUCATION

Columbia University, Fu Foundation School of Engineering and Applied Sciences — New York, NY
Master of Science in Computer Science (Machine Learning Track), GPA 3.5 — Expected Dec, 2017
Teaching Assistant Fellowship: Machine Learning and Advanced Software Engineering — Jan, 2017
Teaching Assistant: Introduction to Computing in Python — Sep, 2016

University of Delhi, Netaji Subhas Institute of Technology — New Delhi, India
Bachelor of Engineering in Information Technology, 71.66% — May, 2014
Relevant Courses: Data Structures, Algorithms, Artificial Intelligence, Machine Learning, Database Systems, Software Engineering

EXPERIENCE

Uber Technologies Inc. — San Francisco, USA
Software Engineering Intern — May, 2017 - Aug, 2017

- Developed a model to integrate real time traffic data to predict ETA for trips and built the pipeline to enable the ETA analysis
- Designed and built a platform to enable Marketplace Data Scientists to perform feature engineering using optimized Hive queries and Spark computations

Delhivery (SSN Logistics) — Gurgaon, India
Software Engineer — Mar, 2015 - Aug, 2016

- Developed an algorithm to extract locality and sublocality from addresses pertaining to unstructured address and zipcodes in India; increased deliveries per day by 59% (less human invovlement) and decreased misdeliveries by 43%
- Built model to predict category and sub-category of products using Naive Bayes algorithm to achieve accuracy of 94%; affecting product level intelligence thereby improving the item catalog, better item pricing, and enhanced metadata

American Express — Gurgaon, India
Software Engineer — Jul, 2014 - Feb, 2015

- Led a project to integrate two systems - Data Warehouse and Data Mart; enabled data analysts to gather information from one source only and thus, improved creation of models in a faster way
- Developed application in Python and Hadoop integrating libraries for K-NN, Random Forest, and Gradient Boosting to assign customers' a score, for efficient campaign management; resulted in integration of varied systems under one roof

Mozilla Foundation — Delhi, India
Open Source Developer — Dec, 2014 - Mar, 2015

- Enhanced Talos (Mozilla's Testing Framework) by fixing deprecated scripts which resulted in 10% increase in the efficiency of the framework

ACADEMIC PROJECTS

Predict the financial market uncertainties using the conglomerate of search analytics, stock basket correlation and historical data

- Employed pilot approach of evaluating a company on three parameters- historical prices, tweets, headlines and Google Trends
- Used Google Analytics to reduce error in prediction and expanding project to involve various market sectors

Sentiment Analysis of Users' Reviews on IMDB Movies

- Applied Naive Bayes classifier using NLTK in Python to classify reviews into positive/negative class with accuracy of 74%
- Developed feature mechanism in Python which selects top N words to classify reviews. This increased the accuracy to 84%

Detection of anatomical structures in retinal Images for identifying glaucomatous changes (funded by the Government of India)

- Developed algorithm to detect optic disc and macula using MATLAB which has a success rate of 90%
- Worked on applying machine learning techniques to identify the optic disc and optimized the algorithm

SKILLS

Languages: Python, C, C++, Matlab, LaTeX, HTML, CSS, JavaScript
Tools/Frameworks: AWS, Git, LAMP, Hadoop, Disque, WEKA
Data Stores: MySQL, Oracle, PostgreSQL, MongoDB, Redis, Neo4j
Big Data: Hadoop, MapReduce, Hive

HONORS AND AWARDS

Speaker, **WithTheBest Conference for Developers** — Sep, 2016
The Bolt Champion, **Delhivery(SSN Logistics)** — Jul, 2015
Merit Scholarship, **University of Delhi** — Aug, 2013 - May, 2014
Cofounder of ACM-NSIT Chapter, **University of Delhi** — Jun, 2013