VIDYA VENKITESWARAN

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www.vidyavnv.github.io

EDUCATION

Columbia University, Fu Foundation School of Engineering and Applied Sciences New York, NY
Master of Science in Computer Science (Machine Learning Track) 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

Delhivery (SSN Logistics) Gurgaon, India
Software Engineer Mar, 2015 - Aug, 2016
- Simulated Delhivery's logistic network to build a probabilistic model to predict package arrival time with an error estimate
- 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
- Re-architectured Addfix (a model to identify locality and sub-locality from uncleaned addresses) by converting it into a Restless API; improved requests handling from 6 requests/second to 752 requests/second, without any data loss
- Developed feedback-framework which allows user to tag localities in addresses using frequency analysis(n-grams); increased the Data-Quality team's efficiency in creating data for Addfix, from 200 addresses per day to 1000 addresses per day

American Express Gurgaon, India
Software Engineer Jul, 2014 - Feb, 2015
- Led 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
- Improved in-house Big Data architecture and applied algorithms which enhanced the efficiency of the systems

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