VIDYA VENKITESWARAN

250 28th St, #3, San Francisco, CA 94131 | 917.325.1397 | vv2269@columbia.edu
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), GPA 3.52 — Dec, 2017
Teaching Assistant Fellowship: Machine Learning, Advanced Software Engineering, Python — Sep, 2016 - Dec, 2017
Coursework: Applied Machine Learning, Natural language Processing with Deep Learning, Machine Learning, Artificial Intelligence

University of Delhi, Netaji Subhas Institute of Technology — New Delhi, India
Bachelor of Engineering in Information Technology, 71.66% — May, 2014

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 - improving the ETA prediction by 25% and built scalable pipeline to enable the ETA analysis
- Designed and built a platform 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 involvement) 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 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 resulting in 10% increase in the efficiency of Talos

ACADEMIC PROJECTS

IBM Watson Intern - Integration of probabilistic short and mid-term solar power forecasts into operations of ISOs

- Implemented Optimized Swinging Door Algorithm to detect solar power ramp events to enable ISOs to dynamically obtain their ramping needs
- Reduced the space and time complexity of the algorithm by 25%; processes 60K locations in 13 seconds

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

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

Winner Best Microsoft Hack -**HackPrinceton(Sponsored by Microsoft)** — October, 2017
Speaker, **WithTheBest Conference for Developers** — Sep, 2016
The Bolt Champion, **Delhivery(SSN Logistics)** — Jul, 2015
Merit Scholarship, **University of Delhi** — Aug, 2013 - May, 2014