

Meghna Natraj

☎ +1 (470)-263-0198

✉ meghna.natraj@gmail.com

📷 MeghnaNatraj

🌐 meghnanatraj

Education

MS in Computer Science | GEORGIA INSTITUTE OF TECHNOLOGY, GPA: 4.0/4.0 Atlanta, GA | Aug '15 - May '17

BE in Computer Science | MSRIT, GPA: 9.5/10.0

Bengaluru, India | Aug '10 - July '14

Work Experience

BLOOMBERG | SOFTWARE ENGINEER, MACHINE LEARNING AND ANALYTICS

New York, NY | Jun '17 - Present

- Lead a team to build and deploy a machine learning service to production using multi-class logistic regression.
- Using a trader's transactions, we recommend clients who are most likely to trade certain securities with ~70% accuracy.
- Designed a highly scalable framework to periodically train personalized models for each subscribed trading firm.
- Presented a tech talk internally about our Trader Order Management Machine learning service (Tommy).

NVIDIA | DATA SCIENCE INTERN

Santa Clara, CA | May '16 - Aug '16

- Built an interactive analytics tool using Elasticsearch-Kibana to help project managers with sprint planning.
- Developed a data pipeline to collect metrics (story points, progress, dependencies) from Jenkins, Jira and Git.
- Integrated an anomaly detection system with the team's services by analyzing uptime and usage metrics.

Georgia Institute Of Technology | TEACHING AND RESEARCH ASST.

Atlanta, GA | Aug '15 - May '17

- Head Teaching Assistantship: Data and Visual Analytics (CSE 6242) with 200+ students.
- Research Assistantship: Built a visual data analytics tool for GIS researchers using ArcGIS and GT tree database.

Akamai Technologies | SOFTWARE ENGINEER

Bengaluru, India | Feb '14 - Jul '15

- Setup a recommendation system for targeted advertising and built a test automation framework for regression.

Projects

Passage - A Travel Safety Assistant | DATA AND VISUAL ANALYTICS

- Published in the 21st International Conference of Intelligent User Interfaces '16 Companion.
- Developed an algorithm to analyze crime data in Atlanta (~250k crimes; 6 years) and suggest safe walking paths.
- Built a real-time peer monitoring system with touchscreen detection to enhance safety.

Movie Recommendation System | MACHINE LEARNING

Predicted ratings for MovieLens 100K dataset using baseline predictor method and item-based collaborative filtering.

Scene Recognition with ConvNets | VISUAL RECOGNITION

Trained a CNN using MatConvNet and fine tuned a VGG-F network to recognize human faces and scene attributes.

K-sparse Autoencoders | DEEP LEARNING

Developed a feature learning algorithm for sparse representation of images using TensorFlow.

Technical Skills

Programming	Python, C++, Java, Matlab, SQL
Machine Learning	TensorFlow, scikit-learn, R, Caffe, Weka
Big Data	Kibana, Elasticsearch, Apache Spark, Apache Hadoop, Pig, MongoDB, Tableau, OpenRefine
Coursework	Artificial Intelligence, Machine Learning, Computer Vision, Natural Language, Pattern Recognition Web Search and Text Mining, Design and Analysis of Algorithms, Computational Sustainability

Achievements

Hackathon Winners (team of 4) of Georgia Tech Convergence Innovation Competition. Built an android application, food for thought, which enables organizations to donate excess food to non-profit organizations, 2017.

HR Head Sourcing and recruiting 100+ volunteers at Make a Difference, a non-profit for shelter homes in India, 2015.