Akshit Meghawat

linkedin.com/in/akshit-meghawat
github.com/akshitmeghawat

ammeghaw@ncsu.edu
+1 (919) 884-1072
Raleigh, USA

EDUCATION

North Carolina State University Raleigh, USA
Master of Computer Science, Data Science track; GPA: 3.78 *expected May 2019*
- ○ **Courses**: Spatial and Temporal Data Mining, Data Intensive Computing, Data Driven Decision Making, Design and Analysis of Algorithms, Artificial Intelligence, Database Management Systems

Vellore Institute of Technology Vellore, India
Bachelor of Technology in Information Technology; GPA: 8.54/10.0 *May 2015*
- ○ **Courses**: Probability and Statistics, Linear Algebra, Operations Research, Object Oriented Programming in C++

EXPERIENCE

Trusted Shares & Investment Ltd Mumbai, India
Data Science Intern *Summer 2018*
- ○ Implemented machine learning algorithms (SVM, neural networks, naive bayes classifier) to predict publicly traded stocks' performance in Indian stock market. (Python, Pandas, Sklearn, TensorFlow)
- ○ Conducted technical analysis (**Divergences, Momentum**) to analyze market trends. (C++)

McKinsey & Company Bangalore, India
Junior Digital Analyst, Technical Intern *Jan 2015 - Apr 2017*
- ○ Developed **data-driven analysis & visualization** tools (JavaScript, AngularJS, MongoDB) for **10+ clients** from wide range of industries (insurance, e-commerce, shipping, government etc.)
- ○ Built an event tracking software with **MEAN stack** for organizations to systematize data collection and management. It helped in prioritization of resource allocation, scheduling and cost control. Also helped in measuring KPIs for impact assessment and future planning. The software is used by **5+ government organizations** in Africa.
- ○ Designed a database system (**CRUD operations, Indexing, Sharding**) for an insurance firm to auto-consolidate data from various international data banks (OECD, World Bank) and provide macro-level analysis.

PROJECTS

Deep Learning: Combining satellite imagery and ML to predict poverty https://goo.gl/YGCb8H
- ○ Implemented **convolutional neural network** (architecture inspired from VGG-16) with **transfer learning** to classify countries in Africa into 3 different economic classes. (Python, Pandas, Keras, TensorFlow, R)
- ○ Used CNN models to extract features from daytime satellite images (Google Static Maps API) to predict economic activity.
- ○ Due to lack of labelled data, **nighttime light intensity was used as a proxy for economic factors**, allowing us to scale without labelled data.
- ○ Reproduced research done by sustain.stanford.edu/predicting-poverty

Big Data: Yelp Recommendation System
- ○ Developed a restaurant recommendation system using Hadoop ecosystem: Spark in Python.
- ○ Designed a recommender system (collaborative filtering) using reviews, check-in data from Yelp dataset (link).

Machine Learning: Enron Fraud Detection https://goo.gl/3FECqf
- ○ Implemented **Decision Tree Classifier with AdaBoost** from scratch (Python, Numpy) to identify Enron fraud suspects with public Enron financial and email dataset (link).
- ○ Obtained validation F1 score of 0.6

Database Design Project
- ○ Designed and developed a database system for a hotel chain to maintain check-in and staff information. (MySQL, Java)
- ○ Utilized RDBMS concepts of stored procedures, integrity constraints and triggers to generate reports, manipulate and search check-in information.
- ○ Implemented grants and privileges to facilitate role-based access control.

TECHNICAL SKILLS

Programming: Python, C++, JavaScript, HTML, CSS, C, Java, R, Matlab, SQL
Data Science: Numpy, Pandas, Scikit-learn, Matplotlib, Keras, TensorFlow, XGBoost Jupyter, Hadoop, Spark
Web Development: AngularJS, Node.js, Bootstrap, Highcharts, MySQL, MongoDB, PyMongo, Bottle
Version Control: GitHub
Others: Agile Software Development, SCRUM, MVC