

Akshit Meghawat

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Raleigh, USA

EDUCATION

North Carolina State University

Raleigh, USA

Master of Computer Science, Data Science track; GPA: 3.78

expected Dec 2018

- **Courses:** Spatial and Temporal Data Mining, Data Driven Decision Making, Foundations of Data Science, 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 SVM, neural networks and naive bayes classifier to predict publicly traded stocks' performance in Indian stock market. (Python, 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 for **10+ clients/companies** from wide range of industries (insurance, pharmaceutical, shipping, government etc.) (Javascript, AngularJS, MongoDB)
- Built an event/initiative tracking software 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, 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

Enron Fraud Detection

- Implemented **Decision Tree Classifier with AdaBoost** (Python, Pandas, Sklearn) 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. (SQL, 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.

Asymptotic Analysis of Algorithms

- Performed large scale computational experiments in C++ with multiple sorting algorithms (utility, merge, heap etc) to analyze asymptotic constants for runtime and key-comparisons.
- Conducted the experiments with varying input sizes (~100k to 12.8M) and different input shapes (random, organ pipe, sawtooth)

TECHNICAL SKILLS

Expert: Python, C++, Numpy, Pandas, Sklearn, JavaScript, HTML, CSS, Bootstrap, AngularJS, MongoDB, GitHub

Intermediate: C, TensorFlow, Keras, Matplotlib, R, Node.js, Highcharts.js, SQL, MySQL, Compass, PyMongo, Bottle

Beginner: ReactJS, Java, Matlab

Others: Agile Software Development, SCRUM, MVC