

Bharat Kumar Mukheja

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GitHub: <https://github.com/bmukheja>

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Education

- Master of Science in Computer Science, North Carolina State University | Class of 2018
 - Major: Data Science. Expertise in Machine Learning and Deep Learning
- Bachelor of Technology in Electronics & Communication, IIT Roorkee | Class of 2013
 - Athletics team member
- Modern Sr. Secondary School, Patiala | Class of 2009
 - Achiever of the Year, for Excellence in Academics

Technical Skills

Programming Languages	: Python, C++/C, R, Java, PySpark
Databases	: MySQL, MongoDB, Elasticsearch, Oracle SQL
Data Science Tools	: Stanford CoreNLP, Apache NLP, Amazon Lex, IBM Bluemix, Pandas, Scikit-Learn, TensorFlow, Keras, SciPy
Machine Learning Methods	: Regression, Classification, Neural Nets, RNN, LSTM
Tools	: Eclipse, R studio, PyCharm, Visual Studio, GIT

Scholastic Achievements

- **International Publication, on Machine Learning statistical model:**
 - **'Assessment and Modelling of financial exposure of PPP based Indian highway infrastructure projects', 18th International Road Federation World Meeting 2017, Delhi ('17)**
- **National Science Olympiad:** Top 1 percentile at National Level, Selected for Scholarship
- **National Scholarship for Science:** Winner of Indian national scholarship for Undergraduate degree
- **Best Project:** Awarded top project award in Business Intelligence course, NC State University, among 50 groups

Select Projects and Research

NLP -> Coreference Resolution (Guided Individual Project, Dr. Enck, NC State University)

Detect and Rewrite Coreference chains in Android apps policy documents to simplify lemmatization(On Github)

Machine Learning -> Attributed graph community detection for Market Segmentation (Business Intelligence Course)

For a given product, identify 'easily influenced' communities on social media using community detection

Deep Learning -> Detect and correlate student emotions from the study content (Guided Individual Project, Dr. Min Chi)

Find the correlation between the study content and student emotion in 3+ hour long tutoring session.

Work Experience

Software Engineer Intern/Coop, Nokia

June 2017 – Present

- Network Stats Pipeline: Developed Stats collection pipeline intended for Resource requirement prediction, SLA optimization, Cost cutting, Anomaly Detection, and Real-Time alarms.
- Stats Visualization: Built visualization for the above
- Functional Testing Suite: A functional testing suite in Python to replace the old Tcl based testing framework

Sr. IT Manager, Aaramshop (bought by Reliance)

Feb 2016 – July 2016

- Product Recommendation: Developed Product Recommendation service using Machine Learning algorithm
- Sales Analytics: Sales analytics API from sales database
- Analytics Visualization: Analytics visualization for the above sales analytics

Network Consulting Engineer, Cisco

July 2013 – Sep 2015

- Testing - Built a pre-deployment testing suite in C/C++ for Cisco UC products. Utilized VMware ESXi API.
- Customer Onboarding: Contributed to existing customer onboarding and developed a few products:
 - Ticketing system for automatic ticketing of on-site customers of clients with support for automatic emails and status check.
 - Test cases for measuring capacity and health resources of Cisco VMs on customer manager data center
- Reporting and visualization of tests and health checks and quarterly presentation.
- Customer issue handling over phone calls and video conferencing