ASEEM RAINA

Github:// **aseem96** | LinkedIn:// **aseem-raina** | **https://aseem96.github.io**
+1 (919) 457-3723 | araina@ncsu.edu

EDUCATION

Master of Science in Computer Science 2017 - 2019
North Carolina State University

Bachelor of Engineering in Information Technology 2013 - 2017
University of Pune, CGPA: 9.22/10.00

SKILLS AND INTERESTS

Languages	**Java**, **Python**, C++, NodeJS, Javascript, C, Embedded C, R
Frameworks	MySQL/NoSQL, JUnit, Git, RESTful, Jenkins, Mocha, Chai, Keras, Slack API
Interests	Machine Learning, Natural Language Processing, Data Analytics, Robotics

EXPERIENCE

IBM India - Cloud and Analytics July 2016 - January 2017

- **Watson** | Part of the development and testing team for IBM ConnectToCloud (C2C). Built a test automation framework from scratch for #codename:Eleanor, using NodeJS.
- **Log Analysis** | Worked on analyzing and extracting metrics from log files, as part of a microservices framework under IT Operations Analytics. Wrote a module to generate log files in various formats using Java and JUnit, thereby reducing manual effort.
- **Bluemix** | Worked as a part of the development and testing team of Bluemix environment for IBM Watson and Predictive Analytics APIs, for log file clustering and analysis including anomaly detection.

PROJECTS

Remote Intelligent Assistant for Linux

- Developed a Linux based Desktop Assistant using ML and NLP. Converts instructions in English given by user to syntactically correct Linux commands. The application continuously learns and adapts to user feedback. The commands can be run on the user machine remotely using Slack API.

Pre-release Movie Success Prediction

- Developed an application to predict the success of a movie before its actual release. Tried and tested an ensemble of models including Xgboost and Random Forest after data cleaning and pre-processing. Achieved an accuracy of 64% which is much more than linear models and previously achieved results.

Real Time Traffic Analytics using Social Media Feed

- Developed an application to post real time traffic updates to a dashboard, including the possible reasons for congestion (using NLP). Trained a sentiment analysis ML model for the same.

Shuttlecock Tracking and Trajectory Estimation (http://goo.gl/W3zrwW)

- Worked on a project to detect a shuttlecock in the initial phase of its flight and estimate the trajectory using regression concepts, using **Microsoft Kinect**. The above data was transferred to a robot for successful return of service. Achieved an accuracy of 93%. Published our work in an international journal.

ACHIEVEMENTS

Best Implementation	National Chemical Laboratory, VertBlue Hackathon, India
National 4^{th}/89 and 11^{th}/110 teams	ABU Robocon 2014 and 2016, India
Winner	Java, C Programming Contest, Maharashtra Institute of Technology, India
First Runner Up	Paper Presentation Contest, College of Engineering Pune, Pune, India