

Aseem Raina

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EDUCATION

Master of Science in Computer Science	Aug 2017 - May 2019
North Carolina State University, Raleigh, NC	GPA 3.63/4.0
Bachelor of Engineering in Information Technology	June 2013 – Jun 2017
University of Pune, Pune, India	GPA 9.22/10

EXPERIENCE

Research Assistant – Thesis North Carolina State University - Raleigh, NC	Aug 2018 – Present
<ul style="list-style-type: none">Project – Using real-time multichannel self-regulated learning data to enhance student learning and teachers' decision making with MetaDash https://goo.gl/oTZaa7 - Machine Learning, Deep Learning, NLP, Temporal Data FusionInvestigating methods to achieve time series temporal data fusion, synchronization and clustering between multichannel student data through clustering, revealing insights about trends in student learning based on learning gain.	
Developer Summer Analyst, Technology Barclays Investment Bank - NY	Jun 2018 – Aug 2018
<ul style="list-style-type: none">drDNS Runner Developed a Django web application for disaster recovery and management to automate the process of DNS failover and failback for the Barclays JARVIS tool. Reduced manual intervention and improved latency by 70%.Loadbalancing Analytics Wrote a Python script to handle Ansible orchestration for command execution across several hosts. By adopting a multi-thread approach, reduced the execution time by 50%.	
Software Developer Intern IBM - Cloud and Analytics - Pune, India	Jul 2016 – Jan 2017
<ul style="list-style-type: none">Watson Developed a test automation framework from scratch for #codename:Eleanor using NodeJS and Mocha/Chai, as part of the development and testing team for IBM ConnectToCloud (C2C).Log Analysis Developed a module for analyzing and extracting metrics from log files, as part of a microservices framework under IT Operations Analytics, using Java and JUnit. Wrote a Python script to generate log files in various formats, 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.	

SKILLS

Languages	Python, Java, C++, C, JavaScript, Embedded C, SQL, R
Frameworks	Keras, Pandas, Django, Flask, MySQL/NoSQL, SQLite, Junit, Git, RESTful, Spring, Hibernate, Jenkins, Mocha, Chai, Slack API, Hadoop, Apache Kafka, Node.js, TensorFlow, scikit-learn, Selenium

PROJECTS

Remote Intelligent Assistant for Linux Machine Learning, NLP
<ul style="list-style-type: none">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 Machine Learning
<ul style="list-style-type: none">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.
Shuttlecock Tracking and Trajectory Estimation Image Processing
<ul style="list-style-type: none">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.
Real Time Traffic Analytics using Social Media Feed Machine Learning, NLP
<ul style="list-style-type: none">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, achieving an accuracy of 78%.

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 and C Programming Contest, Maharashtra Institute of Technology, India
First Runner Up	Paper Presentation Contest, College of Engineering Pune, Pune, India