

RITIKA GUPTA

Boston, MA | (+1) 617-373-0562 | gupta.ritika@husky.neu.edu | www.linkedin.com/in/rtkgupta/

Availability: **Sept – Dec 2019**

EDUCATION

Northeastern University , Boston, MA – <i>Candidate for a Master of Science in Computer Science</i>	Sep 2018 - Present
Khoury College of Computer and Information and Sciences	Expected graduation: Dec 2020
Coursework: Algorithms, Programming Design Paradigm, Natural Language Processing, Machine Learning.	
Malaviya National Institute of Technology , Jaipur, India – <i>B.Tech in Computer Science and Engineering</i>	Jul 2012 - Jun 2016
Coursework: Object Oriented Programming, DBMS, Evolving Architectures and Operating Systems.	

TECHNICAL SKILLS

Languages:	Python , Java, Reactjs , JS, Angular2, HTML5, MySQL, Shell Scripting.
ML Libraries:	Sklearn, Keras, TensorFlow, SciPy, NLTK, Stanford CoreNLP
Tools & Frameworks:	Spring Batch, SpringBoot, Bootstrap, AWS, Kinesis, Control M, Hibernate, SSO via AD, REST.
Devops & Agile:	Git, Stash, Docker, Jenkins, Ansible, SonarQube, Maven, Nexus, Jira , Confluence, Kanban, Bamboo.
Operating Systems:	Windows, Linux, Unix, Mac.

EXPERIENCE

Tradeweb , New Jersey, USA	June 2019– Present
<ul style="list-style-type: none">Building a React application to retrieve Market feeds and client data from MySQL and Redis databases. In order to provide monitoring and analyzing capabilities to internal team.Part of docker onboarding team for Tradeweb direct; currently embedding 5 applications it into the existing pipeline.Working on a proof of concept of AWS Kinesis and Kafka to compute on streaming data from clients.	
HSBC Technology , Pune, India	Jul 2016 - Jun 2018
Software Engineer	
<ul style="list-style-type: none">Developed a surveillance application to monitor Cancels and Amends 18 trading systems globally in sprints employing Core Java, JS, spring and Shell scripting; received STAR performer for outperforming in daily jobs.Revamped existing monolithic architecture to a container-ready architecture using microservices in Java (spring boot), to remove dependencies in code base.Created full stack application by using REST API calls (Java 8) to fetch release data from Oracle SQL database and designed user interactive analytics dashboard in Angular 4 to summarize/compare 9 key performance metrics for all projects.Built in-house electronic communication surveillance product using Python to flag risky attachments in mail into different categories; for text classification from email attachments images and pdfs.	
ARTSTREAK (Social Entrepreneurship) , Jaipur, India	Aug 2014 - Feb 2015
Co-Founder & CTO	
<ul style="list-style-type: none">Built, launched and maintained website in team of 2 for over a year using HTML5, CSS and JS which hosted 32 artist portfolios helping them advertise their skill to source funding.	

ACADEMIC PROJECTS

Keyword Spotting System , Northeastern University, Boston	Feb 2019 - April 2019
<ul style="list-style-type: none">Predicted the 'wake word' from a Speech Command Dataset of audio clips. Benchmarked two approaches; MFCC features v/s spectrogram images of the audio clips.Implemented a 6-layer CNN with transfer learning using Inception-ResNet using Python and Keras for each feature respectively.	
Movie Reviews Analysis , Northeastern University, Boston	Jan 2019 – Feb 2019
<ul style="list-style-type: none">Built Multilayer perceptron algorithm in Python with word embeddings (count vector and word2vec) and trigram, POS features to predict positive/negative sentiment of the reviews and tag them.	
Stock Market Application , Northeastern University, Boston	Oct 2018 – Dec 2018
<ul style="list-style-type: none">Created a user interactive mock stock market platform in Java and Swing to allow users to learn stock market trading with virtual money and real-time transaction data fetch by Alphavantage API. Users can create a portfolio, buy shares, create and implement strategies to a portfolio, determine their total cost basis and value over a period.	

ACADEMIC LEADERSHIP

Teaching Assistant for Introduction to Web Development for Professor Ghita.	Jan 2019 – April 2019
Web Chair, Northeastern Graduate Woman Coder Club – Boston.	Sept 2018 - Present
Founder of Student Mentorship Program at - MNIT Jaipur.	Oct 2014