UDITA N. GUPTA

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EDUCATION

New York University, Tandon School of Engineering, Brooklyn, NY — May 2019
- Master of Science in Computer Science Degree — **GPA: 3.85**
- Relevant Coursework: Data Science (CDS); Cloud Computing; Machine Learning; Deep Learning; Algorithms
- **Graduate Teaching Assistant** for Cloud Computing course at Computer Science Department, NYU Tandon. — **Present**
- **NYU Graduate Scholarship:** Graduate Enrollment Management and Admissions, NYU

University of Mumbai, Dwarkadas J. Sanghvi College of Engineering, Mumbai, India — Jun 2015
- Bachelor of Engineering in Computer Engineering Degree — **GPA: 3.8**
- Relevant Coursework: Soft Computing; Distributed Computing; Robotics & AI; Data Mining and Warehousing

LANGUAGES AND TECHNOLOGIES

Domains: Public Clouds, Infrastructure as a Service (IaaS)
Programming Languages: Java (Intermediate), Node.js (Intermediate), Python, JavaScript
Databases: MySQL, SQL Server, Redis, DynamoDB, MongoDB
Tools: PyTorch, Keras, TensorBoard, Scikit-learn, AWS, Hadoop, PIG, Spark, Tableau, Docker, Consul, DataDog, Loggly

WORK EXPERIENCE

Technology Summer Analyst -- Morgan Stanley, New York, USA — Jun 2018-Aug 2018
- Built Trade Recommendation Engine using Binary and Multi-label classification models for business various exceptions.
- Also building a GUI and backend REST services using Python Flask Framework and Angular JS 2 for the same.

Software Engineer -- Tata Consultancy Services, Mumbai, India — Aug 2015-Jul 2017
- Built a scalable, dynamic and cost-effective cloud solution on AWS Cloud Platform using Node.js.
- Features: automated data backup retention solution, custom Service Discovery for containers, clustering Redis and RabbitMQ.
- Reduced the overall cost by 60% for an entire year compared to application's PaaS deployment.

RELEVANT PROJECTS

Deep Sentiment Classification (CNN, LSTM, GRU, Keras, TensorBoard): — Oct 2018
- Performed sentiment classification on the IMDB Movie Review Dataset using sequence models in Keras
- Developed a model combining CNN and LSTM which achieves an accuracy of 90% as compared to standard accuracy of 81%
- Used TensorBoard for hyper-parameter tuning and debugging the model

Try Me Out (CNN, Python): — Mar 2018
- Built a CNN (Convolutional Neural Network) driven Computer Vision system where users can try on different types of spectacles and beards before they make a decision.
- We used CNN to automate landmark detection process by training the model using an existing Kaggle competition's dataset.

NLP Driven Customer Service App (AWS, Node.js): — Oct 2017
- Building interactive bots using AWS Lex, Lambda, DynamoDB and ElasticBeanstalk. Developed modules using Node.js.

Radiation Effect on Human Health and Climate using Big Data Technologies (PySpark, Python): — Dec 2017
- Cleaning and Processing Radiation data from NASA and Safecast APIs and hosting the application on NYU HPC.
- Analyzing the streaming data and developing insights which were then visualized using various packages in R and eventually showing co-relation between temperature, altitude and radiation level.

Stock Prediction based on Sentiment Analysis using IBM Watson Services (IBM Watson): — Dec 2017
- Pre-Processing and Training the data received from the Watson News API and passing it to IBM Watson Discovery to get trending topics and perform categorical stock prediction. Deploying the web application on IBM Cloud Platform.

PUBLICATIONS AND CERTIFICATIONS

- Co-authored a book: **Mastering AWS Lambda** with Packt Publications. — Aug 2017
- **AWS Certified Solutions Architect** Associate. — Feb 2016

ADDITIONAL EXPERIENCE

- Tech Committee Member of **HackNYU** 2018. — Oct 2017
- JAVA and Communication Skills Mentor in Tata Consultancy Services. — Aug 2015