

VIKRAM SUNIL BAJAJ

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EDUCATION

New York University Tandon School of Engineering **Brooklyn, NY**
May 2019
Master of Science in Computer Science (GPA: 4/4)
• **Relevant Coursework:** Foundations of Data Science, Programming for Big Data, Computer Vision, Cloud Computing, Database Systems
• **Honors:** Awarded a merit-based graduate scholarship

Gandhi Institute of Technology and Management GITAM School of Technology **Hyderabad, India**
Apr 2017
Bachelor of Technology in Computer Science and Engineering (GPA: 3.95/4)
• **Relevant Coursework:** Artificial Intelligence & Machine Learning, Data Mining, Cloud Computing, Probability & Statistics

SKILLS

• **Programming Languages:** Proficient: Python, MATLAB; **Working Knowledge:** SQL, Java, PHP; **Familiar:** C, C++
• **Data Science Libraries (Python):** scikit-learn, nltk, gensim, pandas, numpy, matplotlib, plotly
• **Tools/Technologies:** Machine Learning, Data Science, Computer Vision, NLP, Deep Learning (Keras-TensorFlow), Big Data (Hadoop, Spark, PySpark), Tableau, AWS (Lambda, Lex, Amazon ML, Elasticsearch, DynamoDB), Flask, Web Dev, Android App Dev, LaTeX, Graphic Design

CERTIFICATIONS

• **Deep Learning Specialization** certificate by Andrew Ng on Coursera May 2018
• **Introduction to Corporate Finance** certificate by the Wharton School, University of Pennsylvania on Coursera May 2018
• **Introduction to Python for Data Science** certificate by Microsoft on edX May 2016
• **Machine Learning** certificate by Stanford University on Coursera Apr 2016
• **HTML5** certificate by W3C on edX Jul 2015
• **Business English Certificate (BEC-Vantage)** by the University of Cambridge Jul 2014

PROJECTS

MusiCloud: A Cloud-Based Music and Concert Recommendation System Mar 2018 - May 2018
• Developed a conversational bot that recommends music and upcoming concerts, using **AWS Services** including Lambda, Lex, Amazon ML, Elasticsearch, DynamoDB and the Songkick API

Mask-it: Applying Snapchat-like Filters on Face Images Mar 2018 - May 2018
• Implemented the overlaying of Snapchat-like filters/masks on face images by performing face detection, facial landmark detection, mask morphing and alpha blending, in **Python**

Global Temperature Change Prediction Oct 2017 - Dec 2017
• Predicted the temperature of a given city across a specific time period, using an ARIMA model for **time series forecasting**, and analyzed the impact of increasing amounts of pollution and Greenhouse gases on temperature change, in **Python**

Climate Change and its Impact on Health Oct 2017 - Dec 2017
• Leveraged Big Data tools including **PySpark**, **Spark MLlib** to analyze climate change and pollution data, and study their impact on human health

Image Category Classification Using Deep Learning Dec 2016 - Apr 2017
• Used the **Caffe** framework to train a Convolutional Neural Network (CNN) to recognize images belonging to the 1000 categories of the ILSVRC2012 dataset; built a **MATLAB** interface to demonstrate its working

AI Sight: Object Recognition on your Smartphone! Dec 2016 - Feb 2017
• Independently developed an Android app for offline object recognition (available on Play Store)

EXPERIENCE

Deutsche Bank **New York, NY**
Jun 2018 - Aug 2018
Technology Analyst Intern
• Applied **Natural Language Processing** in **Python** to map attributes based on similarities in their descriptions, toward automating data lineage
• Performed **sentiment analysis** of news articles to analyze the correlation of sentiment with stock trend; built a **Flask** web app to demonstrate
• Reviewed the ML capabilities of DgSecure for the detection of personally identifiable information in unstructured data, toward GDPR compliance

New York University **New York, NY**
Nov 2017 - May 2018
Graduate Teaching Assistant and Grading Assistant
• Teaching Assistant for **Deep Learning** (CS-GY 9223-E) in Spring 2018 and for **Big Data Analytics** (CS-GY 9223-G) in Fall 2017 at NYU Tandon
• Grading Assistant for **Deep Learning** (DS-GA 1008) in Spring 2018 under Prof. Yann LeCun at NYU Center for Data Science

New York University Kimmel Center for University Life **New York, NY**
Oct 2017 - Feb 2018
IT and Customer Support Assistant, Events & Operations Division
• Provided IT support; assisted with events through the day; handled customer inquiries; ensured the fulfillment of all building policies

Gandhi Institute of Technology and Management GITAM School of Technology **Hyderabad, India**
Jun 2016 - May 2017
Research Assistant
• Created an ontology for Hindi opinion words and developed a web interface to run SPARQL queries on the ontology
• Paper published in Springer's CCIS, at NGCT 2017

Indian Institute of Technology (IIT Madras) **Chennai, India**
May 2016 - Jul 2016
Summer Fellowship Intern
• Implemented a Content-Based Image Retrieval (CBIR) system in **MATLAB**, using **Computer Vision** and **Machine Learning** techniques
• Increased the number of object categories that the system could recognize by 300%

EXTRACURRICULAR AND VOLUNTEER ACTIVITIES

• **Tech Committee Member**, HackNYU 2018 Oct 2017 - Mar 2018