

VIKRAM SUNIL BAJAJ

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EDUCATION

New York University Tandon School of Engineering

Brooklyn, NY

Master of Science in Computer Science (GPA: 4/4)

May 2019

- **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

Bachelor of Technology in Computer Science and Engineering (GPA: 3.95/4)

Apr 2017

- **Relevant Coursework:** Artificial Intelligence & Machine Learning, Data Mining, Cloud Computing, Probability & Statistics
- **Honors:** Graduated with the 2nd highest GPA in the Department of Computer Science and Engineering

SKILLS

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

CERTIFICATIONS

- **Deep Learning Specialization** by Andrew Ng 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)

Web Development Projects

Sep 2015 - Jul 2016

- Built my personal website (vikrambajaj.me) and other responsive websites: WebsiteDzine (websitedzine.com), Krafterrz (krafterrz.com), and Ranad Pharma (ranadpharma.com)

EXPERIENCE

New York University

New York, NY

Graduate Teaching Assistant and Grading Assistant

Nov 2017 - May 2018

- 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 School of Engineering
- 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

IT and Customer Support Assistant, Events & Operations Division

Oct 2017 - Feb 2018

- 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

Research Assistant

Jun 2016 - May 2017

- Created an ontology for Hindi opinion words and developed a web interface to run SPARQL queries on the ontology
- Paper accepted for publication in Springer's CCIS, at NGCT 2017

Indian Institute of Technology (IIT Madras)

Chennai, India

Summer Fellowship Intern

May 2016 - Jul 2016

- 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