

# VIKRAM 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
- **Honors:** Awarded a merit-based graduate scholarship

**Gandhi Institute of Technology and Management (GITAM University)** **Hyderabad, India**  
April 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
- **Honors:** Graduated with the 2<sup>nd</sup> highest GPA in the Department of Computer Science and Engineering

## SKILLS

- **Programming Languages:** Proficient: Python, MATLAB, Working Knowledge: SQL, Java, Familiar: C, C++, PHP
- **Data Science Libraries (Python):** scikit-learn, pandas, numpy, matplotlib, plotly
- **Tools/Technologies:** Machine Learning (Data Science, Computer Vision), Big Data (Hadoop, Spark, PySpark, Pig), Tableau, Web Development (HTML, CSS, JavaScript), Android Application Development, LaTeX, Graphic Design (Adobe Illustrator)
- **Languages:** English (Fluent), Hindi (Fluent), French (Novice)

## CERTIFICATIONS

- **Deep Learning Specialization** by Andrew Ng on Coursera Ongoing
- **Introduction to Python for Data Science** certificate by Microsoft on edX May 2016
- **Machine Learning** certificate by Stanford University on Coursera April 2016
- **HTML5** certificate by W3C on edX July 2015
- **Business English Certificate (BEC-Vantage)** by the University of Cambridge July 2014

## EXPERIENCE

**New York University** Center for Data Science **New York, NY**  
Feb 2018 - Present  
*Graduate Grading Assistant*

- Grading Assistant for **Deep Learning (DS-GA 1008)** in Spring 2018 under Prof. Yann LeCun

**New York University** Tandon School of Engineering **Brooklyn, NY**  
Nov 2017 - Present  
*Graduate Teaching Assistant, Department of Computer Science and Engineering*

- Teaching Assistant for **Deep Learning (CS-GY 9223-E)** in Spring 2018 and **Big Data Analytics (CS-GY 9223-G)** in Fall 2017

**New York University** Kimmel Center for University Life **New York, NY**  
Oct 2017 - Feb 2018  
*IT and Customer Support Assistant, Events & Operations Division*

- Providing IT support, assisting with events through the day, handling customer inquiries, ensuring the fulfillment of all building policies

**Gandhi Institute of Technology and Management (GITAM University)** **Hyderabad, India**  
June 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 accepted for publication to Springer's CCIS, at NGCT 2017

**Indian Institute of Technology (IIT Madras)** **Chennai, India**  
May 2016 - July 2016  
*Summer Fellowship Intern*

- Implemented a Content-Based Image Retrieval (CBIR) system using **MATLAB**
- Involved the use of **Computer Vision** and **Machine Learning** algorithms, including Support Vector Machines
- Increased the number of object categories that the system could recognize by 300%
- Project is demonstrated to visiting faculty and research scholars at the *Visualization and Perception Lab*, IIT Madras

## PROJECTS

**Global Temperature Change Prediction** Oct 2017 - Dec 2017

- Predicting the temperature of a given city across a specific time period, using an ARIMA model for **time series forecasting**, and analyzing 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

- Leveraging Big Data tools including **PySpark** and **Spark MLlib** to analyze historical climate change and pollution data, and study their impact on human health

**Image Category Classification Using Deep Learning** Dec 2016 - April 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 - Present

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

## EXTRACURRICULAR AND VOLUNTEER ACTIVITIES

- **Tech Committee Member**, HackNYU 2018 Oct 2017 - Present