

VIKRAM SUNIL BAJAJ

+1 (347) 986-4201 | ✉ vikrambajaj@nyu.edu | 🌐 vikrambajaj.me | 📍 Brooklyn, NY
📄 /in/vikrambajaj22 | 📷 /vikrambajaj22 | 🐦 /vikram_bajaj

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
• **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** 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)
- 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**
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 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**
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