

VIKRAM S. BAJAJ

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EDUCATION

New York University Tandon School of Engineering
Master of Science in Computer Science

Brooklyn, NY
May 2019

Ongoing Coursework: *Foundations of Data Science, Programming for Big Data, Design and Analysis of Algorithms*
Honors: *Awarded a merit-based Graduate scholarship*

Gandhi Institute of Technology and Management (GITAM)
Bachelor of Technology in Computer Science and Engineering
Cumulative GPA: 3.95/4

Hyderabad, India
April 2017

Relevant Coursework: *Artificial Intelligence & Machine Learning, Data Warehousing and Data Mining, Probability & Statistics, Database Management Systems, Cloud Computing, Distributed Systems, Web Technologies*

Honors: *Graduated with the 2nd highest GPA among 400+ students in the Computer Science and Engineering department*

SKILLS

Programming Languages and Technologies:

- Prior experience in **MATLAB**, **Python** and **Java**
- Hands-on experience with Python libraries including **numpy**, **matplotlib**, **pandas** and **scikit-learn**
- Intermediate-level understanding of **Machine Learning** and its applications in **Computer Vision** and **Data Science**
- Responsive Web Design using **HTML5**, **CSS3** and **JavaScript**
- Familiarity with C, C++, PHP, SQL and **L^AT_EX**
- Working knowledge of **Android** application development
- **Graphic Design** using Adobe Illustrator

Languages:

- Fluency in English, Hindi and limited working proficiency in French

CERTIFICATIONS

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

EXPERIENCE

Indian Institute of Technology (IIT Madras)
Summer Fellowship Intern

Chennai, India
May 2016 - July 2016

- 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 being demoed at the *Visualization and Perception Lab*, IIT Madras
- This fellowship program had an acceptance rate of ~1.2%

PROJECTS

Semantic Web Research

Undergraduate Research Assistant

GITAM Hyderabad, India
June 2016 - May 2017

- Worked with an assistant professor at my undergraduate university on research related to the creation of an ontology for Hindi Opinion Words; also developed a web interface to query the ontology
- Paper **accepted** for publication to **Springer's CCIS**, at NGCT 2017 (Acceptance Rate: <15%, among 940+ submissions)

Image Category Classification Using Deep Learning

Senior Year Project Team Leader

GITAM Hyderabad, India
Dec 2016 - Apr 2017

- Used the **Caffe** framework to train a Convolutional Neural Network (CNN) that recognized images belonging to the 1000 categories of the ILSVRC2012 dataset, via a **MATLAB** interface

Other Machine Learning and Web Development Projects

Pet Projects (Non-Academic Projects)

- Built an Android app (**AI Sight**) that uses a Convolutional Neural Network for offline object recognition
- Worked on emotion recognition, handwritten digit classification, Titanic survival prediction and sentence similarity estimation (using Natural Language Processing techniques)
- Built my **personal website** (vikrambajaj.me) and other responsive websites including **WebsiteDzine** (websitedzine.com), **Krafterrz** (krafterrz.com), and **Ranad Pharma** (ranadpharma.com)