

ADITYA NATARAJAN

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EDUCATION

Columbia University Master of Science, Computer Science (Machine Learning track) Current coursework: Algorithms, Machine Learning, Databases	New York, NY Aug 2018 - Dec 2019 (expected)
College of Engineering Guindy, Anna University Bachelor of Engineering, Computer Science and Engineering (with Honors) GPA: 8.98/10 (WES Conversion US GPA: 3.92/4.00) Coursework: Algorithms, Artificial Intelligence, Data Structures, Data Mining, Probability & Queuing Theory	Chennai, IN May 2018

SKILLS

- **Programming Languages:** C, C++, Python, Java, PHP
- **Markup Languages:** HTML, LaTeX
- **Tools:** Git, Octave/MATLAB, MySQL

EXPERIENCE

College of Engineering Guindy, Anna University Research Intern	Chennai, IN May 2017 - Aug 2017
<ul style="list-style-type: none">▪ Implemented deep learning strategies to predict Seven-Point stencil and Lattice Boltzmann Method iteration values using window & iteration-lookahead approaches with over 95% accuracy▪ Published at the 10th IEEE High Performance Computing Student Research Symposium	
Indian Institute of Science Research Intern	Bangalore, IN May 2016 - Jul 2016
<ul style="list-style-type: none">▪ Architected Convolutional Neural Networks for predicting image depth maps using multi-view data▪ Designed deep learning architectures for Computer Vision tasks and to mimic Neural Turing Machines	

PROJECTS

Video Editing Using Generative Adversarial Networks	Python, TensorFlow
<ul style="list-style-type: none">▪ Built a frame-by-frame video editing system using Deep Convolutional Generative Adversarial Networks▪ Implemented stylistic colorization and object substitution translations with over 90% color accuracy	
Blind Guidance and Road Assistance System	RaspberryPi, OpenCV, Python, JavaScript
<ul style="list-style-type: none">▪ Designed a smart-cap wearable for visual assistance using Constrained Local Models for face tracking & emotion detection and text-to-speech modules for road sign identification▪ Awarded 2nd place in Microsoft's Code.Fun.Do Hackathon	
Gesture Controlled Bot	RaspberryPi, OpenCV, Python, Microsoft Azure
<ul style="list-style-type: none">▪ Designed a fully functional gesture-controlled bot on Raspberry Pi▪ Implemented the Convex-Hull algorithm for hand gesture recognition using OpenCV▪ Utilized Microsoft Cognitive Services Computer Vision API for character recognition and processing	
Language Modeling using Recurrent Neural Networks	Python, Keras, Android Studio, Flask
<ul style="list-style-type: none">▪ Designed and trained LSTM Recurrent Networks to mimic and generate literary works of different authors▪ Built a content-on-request mobile application to retrieve and present results	

LEADERSHIP EXPERIENCE

▪ Membership Chair , Association for Computing Machinery - Anna University	May 2017 - May 2018
▪ Executive Editor , The Guindy Times (College Magazine)	Apr 2017 - May 2018
▪ Director , Quizzers Anonymous (College Quiz Club)	Apr 2016 - Jul 2017

HONORS

- Published in *The Deccan Herald* (Daily readership: 450,000)
- Eligible for the CBSE Inspire Scholarship, for finishing in top 1% of 930,000 grade 12 students
- Awarded the CBSE Certificate of Merit, for finishing in top 0.1% of 1,300,000 grade 10 students