ADITYA NATARAJAN

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EDUCATION

College of Engineering, Guindy	Computer Science and Engineering	8.93/10	2018
National Public School, Rajajinagar	XII	95.6%	2014
National Public School, Rajajinagar	X	10/10	2012

WORK EXPERIENCE

Undergraduate Researcher, College of Engineering, Guindy, Chennai, India *May – Aug 2017*

- Research paper: *Deep Learning Strategies for Predicting Iterative Stencil Computations*
- Accepted at the *10th IEEE High Performance Computing Student Research Symposium* **(First author)**

Research Intern, Indian Institute of Science (IISc)**,** Bangalore, India *May – July 2016*

- Re-implemented single-image depth map predictions using deep neural networks
- Architected Deep Learning classifiers for Computer Vision applications
- Literature study on Neural Turing Machines and Deep Learning concepts

PROJECTS

Video Editing Using Generative Adversarial Networks *(Skills: Python, TensorFlow)*

- Used Deep Convolutional Generative Adversarial Networks to perform frame-by-frame image translations
- Successfully implemented colorization and object substitution translations

Blind Guidance and Road Assistance System *(Skills: RaspberryPi, OpenCV, Python, Javascript)*

- Smart-cap wearable for visual assistance using Constrained Local Models for face tracking & emotion detection and text-to-speech modules for road sign identification
- *Won 2nd place in Microsoft Code.Fun.Do hackathon. Selected for national finals held at Microsoft IDC, Hyderabad.* ***Presented project to 500+ Microsoft employees***

Gesture Controlled RC Bot *(Skills: RaspberryPi, OpenCV, Python)*

- Implemented the Convex-Hull algorithm for hand gesture recognition
- Utilized Microsoft Cognitive services Computer Vision API for OCR processing

Semantic Similarity Spam Filtering *(Skills: Python, Keras)*

- Built a “Corpus Based Thesaurus” using vector similarity & Principle Component Analysis
- Used deep neural networks with adaptive backpropagation to achieve an accuracy of 84%

LEADERSHIP EXPERIENCE

- **Membership Chair**, Association for Computing Machinery (ACM) - Anna University *2017(Ongoing)*
- **Executive Editor**, The Guindy Times (College magazine) *2017(Ongoing)*
- **Director**, Quizzers Anonymous (College quiz club) 2016 - *2017*

AWARDS

- Eligible for CBSE Inspire scholarship, for finishing in top 1% of 930,000 grade 12 students **(all India)**
- Awarded CBSE Certificate of Merit, for finishing in top 0.1% of 1,300,000 grade 10 students **(all India)**
- Won 15+ quizzes at college, inter-college and state level competitions

SKILLS

- **Programming Languages**: C/C++, Python, Java, HTML/CSS, PHP
- **Tools:** Git, Octave/Matlab, LaTeX

INTERESTS

- **Writing technical articles:** Published in *The Deccan Herald* (Daily readership: 450,000)
- **(**In the Age of Tech Singularity, Sprinting ahead in time)
- **Blogging:** https://adinatblog.wordpress.com
- **Volunteer,** Eco-watch India, *Summer 2016*