ADITYA NATARAJAN

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EDUCATION

College of Engineering, Guindy, Chennai, India *2014 - 2018*
Bachelor of Engineering, Computer Science and Engineering
- Undergraduate research paper: *Deep Learning Strategies for Predicting Iterative Stencil Computations* accepted at the *10th IEEE High Performance Computing Student Research Symposium* **(First author)**
- Won 2nd place in Microsoft Code.Fun.Do hackathon for *Blind Guidance & Road Assistance System*. Selected for national finals held at Microsoft, Hyderabad. **Presented project to 900+ Microsoft employees**
- CGPA: 8.85/10 as of 6th semester (WES Evaluation: 3.92/4.00). 8.93/10 as of 7th semester

National Public School Rajajinagar, Bangalore, India *2000 - 2014*
Central Board of Secondary Education (CBSE)
- 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)**
- Grade 12: 95.6%, Grade 10: CGPA 10/10

WORK EXPERIENCE

Research Intern, Indian Institute of Science (IISc)**,** Bangalore, India *Summer 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

Volunteer, Eco Watch India, Bangalore, India *Summer 2016*
- Designed and implemented educational aids on environmental conservation
- Participated in on-site soil conservation project in Bangalore Rural district
- Hosted events as part of outreach program for underprivileged school children

PROJECTS

- **Gesture Controlled RC Bot**: Used RaspberryPi. OpenCV to control the bot using hand gestures. Utilized Microsoft Cognitive services Computer Vision API for OCR processing
- **Blind Guidance & Road Assistance system**: Smart-cap wearable for visual assistance using Constrained Local Models for face tracking & emotion detection and text-to-speech modules for road sign identification
- **Semantic Similarity Spam Filtering**: Built "Corpus Based Thesaurus" using vector similarity & Principle Component Analysis to classify spam email using deep neural networks with adaptive backpropagation

LEADERSHIP EXPERIENCE & SIGNIFICANT ACHIEVEMENTS

Membership Chair, Association for Computing Machinery (ACM) - Anna University *2017(ongoing)*
- Established membership campaigns and maintained industry/academia relations
- Organized **Prodigy 2017**, a state-wide tech fest for school children attended by 200+ students. Raised sponsorship of INR 35,000 towards operating expenses
- Hosted and conducted weekly tech talks, workshops and competitions for college students

Executive Editor, The Guindy Times (College magazine) *2017(ongoing)*
- Responsible for editing and reviewing all student contributions, which are about 500 per year
- Junior Editor (2016 - 2017) - instrumental in rebranding, social media expansion

Director, Quizzers Anonymous (College quiz club) *2016 - 2017*
- Set and conducted quizzes as part of college cultural and technical festivals. Handled logistics and communication for 30+ quizzes. Typical participation of ~100 teams per event
- Have won 10+ quizzes at college, inter-college and state level competitions

SKILLS AND INTERESTS

- **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