Srivatsan Ramesh

Saraswathi Hostel, IIT Madras

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Indian Institute of Technology Madras of srivatsan-ramesh in SrivatsanRamesh

EDUCATION

PROGRAM B Tech, Electrical Engineering	INSTITUTION Indian Institute of Technology Madras	%/CGPA 8.73/10	COMPLETION 2018
XII (CBSE)	Maharishi Vidya Mandir Senior Secondary School	97.2%	2014
X (CBSE)	Vels Vidyashram	10/10	2012

SCHOLASTIC ACHIEVEMENTS

- Secured AIR 429 in JEE-Advanced 2014 (out of 1,50,000+ candidates); Secured AIR 98 in JEE-Mains 2014 (out of 13,00,000+ candidates)
- Awarded KVPY Scholarship (top 1% out of 10,000 applicants) and offered provisional admission to IISc with fellowship in 2014
- Top 0.1% (out of 35,000 students) in the Indian National Astronomy Olympiad 2014 and attended the OCSC at HBCSE-TIFR, Mumbai
- Top 1% (out of 35,000 students) in the National Chemistry Olympiad 2014 and qualified for the Indian National Chemistry Olympiad 2014

RELEVANT COURSEWORK

- Reinforcement learning
- Machine learning
- Data structures and algorithms
- · Probability theory

- Combinatorial Optimization
- Computer Organization
- Digital Signal Processing
- Error Control Coding

SKILLS

- Core Python, C, C++, Java
- Packages Scikit-learn, Scipy, TensorFlow, Flask

- Web HTML, CSS, JS
- Others LaTex, MATLAB, Android app-dev, Git, Photoshop

RESEARCH

Learning to Mix n-step returns

Submitted to NIPS 2017 — arxiv — Jan 2017 - May 2017

- Developed an algorithm to mix n-step returns using a neural network; Evaluated the performance of Eligibility traces in Deep RL setup
- · Achieved a 4.8x boost in performance on 22 games in the Atari domain over A3C one of the best DRL methods

Open Source Contributions

Github

• scikit-learn - Fixed bugs in CalibratedClassifierCV and OneVsRestClassifier classes of the package.

PROFESSIONAL EXPERIENCE

Summer Analyst, Goldman Sachs Group Inc.

May 2017 - Jul 2017

- Designed and implemented adapters to enable backward compatibility between 2 processing engines
- Developed an efficient monitoring system to ensure consistency between the 2 engines

Python Software Foundation, Google Summer of Code

May 2016 - Aug 2016

- MyHDL is a hardware definition language in Python, which delivers Verilog's functionality with Python's elegant syntax
- Developed open source HDMI Source/Sink IP core module using MyHDL; Contributed to RISC-V processor module using MyHDL

Intern Employee, 1000 Lookz

Dec 2016 - Jan 2017

- Developed an Android application that allows users to search and check-out garments from different vendors
- Developed a JNI wrapper for Dlib's face-pose estimation module and extended it to a user friendly Android app

Software Intern, Clozerr Inc

May 2015 - July 2015

- Developed an Android app, enabling users to check-in to stores with ease and receive rewards for each check-in
- Integrated Google Analytics for monitoring user responses, triggering intelligent notifications based on locations and preferences

HOBBY PROJECTS

Incor — Python App

PyPi — Github

- · Assisted in developing a Python application which manages file-templates for all popular programming languages
- The app watches for file changes and invokes compilation/execution accordingly
- A light weight app with more than 2800 organic downloads on Google Play Store and user rating of 4.3

Virtual Makeup — Python App

Blog — Github

- · Developed a Python application to apply make-up (lipstick, blush and nail polish) virtually to faces
- Incorporated **Color and texture transfer** technique to produce authentic life-like images.

GraviDot — Android Game

Google Play Store — Github

• An arcade game in Android using AndEngine in accordance with the rules of Classical Physics; Integrated AdMob to display native ads

EXTRA-CURRICULAR ACTIVITIES

- Ranked 88^{th} out of 900+ participants in Google Codejam Kickstart 2017 Round C contest
- Ranked 7^{th} out of 120 participants in the Coding contest Code Break 2017 organized by Goldman Sachs
- Qualified for ACM-ICPC regionals (Chennai, Amritapuri) ranked 155 out of 2500+ participants
- Runner up, (out of 20+ teams) Code the Google Way, Hackathon, a college level contest