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EDUCATION

Georgia Institute of Technology

Masters in Computer Science

Atlanta, USA

Aug. 2019 - Present

JSS Academy Of Technical Education

Noida, India

Bachelor of Technology in Computer Science and Engineering; Aggregate: 80.44% with Hons.

Aug. 2014 - June 2018

Projects

- EvalAI: Built an open source platform for evaluating and benchmarking AI models. We have hosted 45+ AI challenges with 5500+ users, who have created 45,000+ submissions. The project is open source with 90+ contributors, 800+ stars, 400+ forks and 1.2+ million pageviews. Some of the organizations using it are Google, Facebook, IBM, eBay etc. and research labs from Stanford, CMU, Georgia Tech, MIT etc. also use it.
- Fabrik: An online collaborative platform to build, visualize and train deep learning models via a simple drag-and-drop interface in web browser. It has 45+ open source contributors, 1000+ stars, 230+ forks.
- Visual Question Answering Demo (VQA): A web demo for VQA task in which given an image and a natural language question about the image, the AI model provides an accurate natural language answer in real-time.
- Visual Chatbot Demo: A chatbot based on visual dialog model in which given an image, a dialog history, and a follow-up question about image, the chatbot answers the next question.
- Trick or TReAT: Thematic Reinforcement for Artistic Typography Web Demo Given an input word (e.g. exam) and a theme (e.g. education), the individual letters of the input word are replaced by cliparts relevant to the theme which visually resemble the letters.
- JSS InfoConnect: Developed and introduced an officially recognized web platform to act as an interaction medium among all students, faculties, and management staff in college. It serves 1000+ daily active users, 20,000+ overall users, 20,000+ notices and more than 3 million page views.
- Zealicon Registration System: Team Lead to digitize the undergraduate college user registration system for annual techno-cultural fest which consists of 2000+ participant registrations every year.

Publications

• EvalAI: Towards Better Evaluation Systems for AI Agents AI Systems Workshop (SOSP 2019) D. Yadav, R. Jain, H. Agrawal, P. Chattopadhyay, T. Singh, A. Jain, S. Singh, S. Lee, D. Batra

• nocaps: novel object captioning at scale

ICCV 2019

- H. Agrawal*, K. Desai*, Y. Wang, X. Chen, R. Jain, M. Johnson, D. Batra, D. Parikh, S. Lee, P. Anderson
- Evaluating visual and text explanations in an interactive, goal-driven human-AI task A. Chandrasekaran, R. Jain, K. Desai, K. Moffitt, J. Miller, D. Diller, B. Ferguson, D. Parikh

In Submission

• Dialog without Dialog: Learning Image-Discriminative DialogPolicies from Single-Shot Question In Submission

M. Cogswell*, J. Lu*, **R. Jain**, S. Lee, D. Batra, D. Parikh

* refers to equal contribution

Experience

Georgia Institute of Technology

Atlanta, GA

Graduate Research Assistant advised by Dr. Dhruv Batra and Dr. Devi Parikh

Aug. 2019 - Present

- EvalAI: Building large scale software pipelines to evaluate code of machine learning models in real-time.
- GuessWhich: Evaluating the role of interpretable explanations towards making a model predictable to a human. We are studying if explanations from model helps humans to predict the models behavior.

CloudCV (Open Source Organization)

Atlanta, GA

 $Team\ Lead$

Jan 2019 - Present

• Leads a team of 15+ contributors to actively maintain CloudCV Projects which aims to make AI research more reproducible.

Google Summer of Code (GSoC) '17, '18, '19

Student Developer, Organization Mentor, Organization Administrator

May. 2017 - August 2019

• 2019: Led a team of 10+ mentors and students to accomplish tasks proposed in GSoC Proposal 2019.

- 2018: Mentor a student to design a command line tool (evalai-cli) for EvalAI which lets the participants to install and use evalai as a python package.
- 2017: Selected as a GSoC student to build new features for hosting AI challenges in streamlined manner, implemented several analytic features for both participants and hosts in EvalAI.

Google Code-In (GCI) '17, '18, '19

Atlanta, GA

Atlanta, GA

Organization Mentor(1), Organization Administrator(2)

Oct. 2017 - Present

- 2019: Leading a team of 10+ mentors on open source projects EvalAI, EvalAI-cli, EvalAI-ngx.
- 2018: Led a team of 10+ mentors to help high school students on open source projects EvalAI, Fabrik.
- 2017: Mentored students to ramp up in open source projects in back-end and front-end technologies.

Computer Vision, Machine Learning and Perception Lab, Georgia Tech

Atlanta, GA

Visiting Research Scholar advised by Dr. Dhruv Batra and Dr. Devi Parikh

Aug. 2018 - June 2019

nocaps: Developed first of its kind large-scale benchmark for Novel Object Captioning, consisting of 166,100 captions describing 15,100 images containing more than 500 objects, out of which more than 400 objects are never described in COCO captions dataset.

Python India (Junction Project)

Noida, India

Open Source Contributor

July 2016 - Oct. 2016

• Implemented several features in the project including the feature of creating and managing users profile in the software.

iAugmentor Labs

Gurgaon, India

Software Development Internship

June. 2016 - August 2016

- Responsible for developing a product which takes a video (an answer of a job interview question) as an input and outputs the accuracy on smiling behavior of the user by training an SVM classifier.
- Implemented a web-based prototype for our trained model to present it to clients.

Nibble Computer Society

Noida, India

Organizing Member

Feb. 2015 - June 2018

• Organized multiple code labs, seminars, workshops on OOPs, Advanced C, C++, Google Summer of Code, Git etc. and mentored 30+ undergraduate students on software development. I was also responsible for organizing college's annual techno-cultural fest Zealicon.

Programming Skills

- Languages: Python, C, C++, Javascript
- Frameworks: Django, Flask, PyTest, Celery, RabbitMQ, Scrapy, AngularJS, PyTorch
- DevOps: Docker, Amazon Web Services, Google Cloud
- Version Control: Git
- Human Computation: Amazon Mechanical Turk
- Databases: MySQL, PostgreSQL, Redis

Fellowship and Awards

- Travel Scholarship for Google Summer of Code Mentor's Summit, '18 and '19
- Travel Scholarship for Google Code In Summit, '18
- Winner, SHE Hacks Hackathon, '16
- Governer Award recipient, '10

EXTRA CURRICULAR ACTIVITIES

- Co-organizer, Visual Dialog Challenge, CVPR, 2020
- Presented EvalAI in Habitat Workshop, CVPR 2019
- Co-organizer, Visual Question Answering and Dialog Workshop, CVPR, 2019
- Co-organizer, Visual Dialog Challenge, CVPR, 2019