Rishabh Jain

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EDUCATION

- **Georgia Institute of Technology** — Atlanta, USA
  Masters in Computer Science; Current GPA: 4.0/4.0 — *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

* refers to equal contribution

- **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**   *In Submission*
  A. Chandrasekaran, **R. Jain**, K. Desai, K. Moffitt, J. Miller, D. Diller, B. Ferguson, D. Parikh

- **Dialog without Dialog: Learning Image-Discriminative Dialog Policies from Single-Shot Question Answering Data**   *In Submission*
  M. Cogswell[*], J. Lu[*], **R. Jain**, S. Lee, D. Batra, D. Parikh

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**   Atlanta, GA
  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
  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 Developer Intern, Machine Learning   *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.

EXTRA CURRICULAR ACTIVITIES

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

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**

PROGRAMMING SKILLS

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