Rishabh Jain

https://rishabhjain2018.github.io/

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EDUCATION

- **Georgia Institute of Technology** — Atlanta, USA
  Masters in Computer Science — *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*

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**

PUBLICATIONS

- **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
  (* denotes equal contribution)

- **EvalAI: Towards Better Evaluation Systems for AI Agents** — In submission
  D. Yadav, **R. Jain**, H. Agrawal, P. Chattopadhyay, T. Singh, A. Jain, S. Singh, S. Lee, D. Batra

EXPERIENCE

- **Georgia Institute of Technology** — Atlanta, GA
  Graduate Research Assistant advised by Dr. Dhruv Batra and Dr. Devi Parikh — *Aug. 2019 - Present*

  - **EvalAI:** Building systems to evaluate code of machine learning model for state-of-the-art in AI.

  - **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*

  - Leading a team of **20+ contributors** and actively maintain CloudCV Projects which aims to make AI research more reproducible.

  - **EvalAI:** Built an open source platform for evaluating benchmarking AI models. We have hosted **35+ challenges** with **4500+** users, who have created **40,000+ submissions**. The project is open source with **90+ contributors, 750+ stars, 375+ forks**. 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 to host their challenges.

- **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**.

  - **2018:** Mentored 5+ students in the most prestigious open source program to contribute in CloudCV.

  - **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** — Atlanta, GA
  Organization Mentor, Organization Administrator — *Oct. 2017 - Dec 2018*

  - **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*
    - Developed and Introduced a officially recognized web platform **JSS InfoConnect** that acts as an interaction medium among all students, faculties, and management staff of JSS. It serves **1000+ daily active users, 20,000+ overall users, 20,000+ notices are uploaded along with 3 million page views since it's launch in 2016.**
    - 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.

Selected Projects

- **Fabrik: Build, Visualize and design neural nets in browser**
  Online collaborative platform to build, visualize and train deep learning models via a simple drag-and-drop interface; **45+ open source contributors, 1000+ stars, 230+ forks**

- **Visual Question Answering Demo (VQA)**
  Given an image, a question related to that image, the model will predict an answer.

- **Trick or TReAT: Thematic Reinforcement for Artistic Typography Demo (TreAT)**
  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.

- **Zealicon Registration System**
  Team Lead for developing the registration system for undergraduate college's annual techno-cultural fest. **It is still used every year in college by more than 1000+ students to pay and register for the fest.**

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

Extra Curricular Activities

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