

# Rashi Dhar

417 Angell St, Providence, RI 02906 • (267)-912-5680

Email: rashi.dhar@brown.edu • Git: [github.com/Rashi1997](https://github.com/Rashi1997) • LinkedIn: <https://www.linkedin.com/in/rashidhar/>

## Education

**Brown University** - ScM Computer Science, 4.0/4.0 GPA

**Providence, RI • Expected May 2021**

- *Coursework:* Software Engineering of Large Systems, User Interfaces and User Experience, Deep Learning, Learning, Sequential Decision Making, Computer Vision, Reintegrating AI and Language Processing in Humans and Machine

**College Of Engineering, Pune** - B.Tech, Electronics and Telecommunication, 3.93/4.0 GPA

**Pune, India • Jul 2018**

- *Coursework:* Fundamentals of Computer Programming, Data Structures and Algorithms, Computer Organisation and Advanced Microprocessors, Information Systems, Coding Techniques in Communication Systems, Intermediate Programming Concepts and Tools, Computer Network, Error Control Coding Techniques and Machine Learning

## Programming Experience

**Brown University**

**Providence, RI • Nov 2020 – Current**

*Head Teaching Assistant, Computer Vision*

- Participated in the TA hiring process for CS 1430, Computer Vision for Spring 2021 under supervision of Dr. James Tompkin.
- Responsibilities: Holding TA hours, Grading programs and written assignments, Writing/revising handouts and assignments, Working on lecture slides, Preparing support code, sample code or demos of programs, Writing, revising, and, in some cases, presenting supplemental material for the class

**Center for Computation and Visualization, Brown University**

**Providence, RI • Sep 2019 – Current**

*Web Developer Intern*

- Designed and developed a web app for the Frank research Lab, Brown University, an effort behavioral task using JavaScript library: JsPsych and successfully deployed it on firebase. effort task
- Designed and developed user-friendly and accessible Vue JS website (registry for all behavioral tasks used by labs in Brown University), including optimized search table and secure access to the data in the GitHub repository, tested using Jest and Nightwatch and successfully deployed on Firebase. beehive

**Capgemini**

**Mumbai, India • Jul 2018 – Jun 2019**

*Software Engineer*

- This project is to build a web application for Singpost Service where customers can send their parcels from source to destination based on various factors like service type, type of goods, weight of the goods, etc. and place orders .
- Developed lambda functions for displaying the order details on final acknowledgement including barcode to scan and implementing AWS Cloud Watch. Technologies used -Angular-6, C#, AWS Lambda, Barcode Designing Tool.

**CISCO**

**Mumbai, India • May 2017 – Jul 2017**

*Research Intern*

- Implemented a package for an open-source tool (ELKStack) that deals with data ingestion and visualization of big data.
- Worked on XML parsing for large files and contributed to an in-house tool for Cisco's Advanced Services Team.

## Projects

**[Re] Goal-conditioned Imitation Learning**

**Sep 2019 - Dec 2019**

- Goal Conditioned Imitation Learning OpenReview Reproduced the GoalGAIL results from Figure 3.
- Examined the code and modified how often the trajectories were being modified by HER and expert relabeling and significantly improved the poor results, but still did not achieve the same results for the baselines. GAIL appeared to have great difficulty improving its initial results, while HER was able to achieve a greater value fairly early on. Initially expected GAIL to outperform HER and for HER to slowly catch up, however this might have appeared farther on in training. Overall though, goalGAIL did perform more strongly than either of the baselines.

**Exploring Spatial Constraints and Temporal Information Within the MONET Framework**

**Jan 2020 - May 2020**

- Presented MONet, a compositional generative model for unsupervised scene decomposition and representation learning and successfully incorporated an effective image segmentation method which integrates local spatial constraints to the baseline MONet model. Based on a challenging Atari dataset, showed that our method significantly outperforms the conventional U-net and the MONet baseline model. For future work, extend this method to multi-class image segmentation and cluster the extracted objects based on their visual similarities.

## Skill Sets

**Technical:** Tensorflow, GCP, Keras, Python, JavaScript, Data structures and algorithms, Machine Learning, C Programming, Core Java, MATLAB, Dot Net, C Sharp, Angular 7, HTML, CSS, Vue JS, GitHub Actions, Node JS.

**Non-Technical:** Quick Learner, Competitive, Futuristic, Focused

## Interests

Computer Vision, Reinforcement Learning, Artificial Intelligence