# Rishabh Garg

| PHONE: +1 (512) 903-3980 | WEBSITE: cs.utexas.edu/~rishabh EMAIL: rishabh@cs.utexas.edu

#### EDUCATION

2019 - 2021 (Expected) 2015 - 2019 Master of Science in COMPUTER SCIENCE, The University of Texas at Austin | CGPA: 4.0/4.0

B.Tech (Honors) in Computer Science and Engineering, IIIT-Delhi

CGPA: 9.40/10 | Graduated with Honors for commendable academic performance

#### EXPERIENCE

JAN 2020 - PRESENT

Graduate Research Assistant, The University of Texas at Austin

- Working with Prof. Kristen Grauman on Audio-Visual Learning from Videos.
- Using spatial audio information in 360° videos to extract regions of interest for better audiovisual features.

Jun 2020 - Aug 2020

Software Engineer Intern, Amazon, Seattle

- Built a critical service, as a part of the Traffic Mirroring team in Amazon Web Services (AWS), using serverless Lambda to interact with Native AWS.
- · Worked independently on the design and implementation of the Lambda service, which consumed data from DynamoDB Streams, and interacted with AWS EC2 APIs.

MAY 2018 - JUN 2018

Software Engineer Intern, Goldman Sachs, Bengaluru

- Developed a unified search platform using Elasticsearch, which included indexing the database of all suspicious activities detected within the firm.
- · Worked on the webapp back-end using Spring, on the front-end UI using React, and on adding features to allow analysis by saving and exporting results to MongoDB.

JUN 2017- DEC 2018

Undergraduate Researcher, Image Analysis and Biometrics Lab, IIIT-Delhi

- · Worked on applying deep metric learning for cross-modal face and other biometric recognition.
- · Achieved state-of-the-art performance on multiple cross-spectral and cross-resolution face and periocular datasets. Results published in IEEE BTAS 2018 (pdf).

Advisors: Prof. Mayank Vatsa, Prof. Richa Singh

MAY 2016- AUG 2016

Student Developer, Google Summer of Code

· Worked for the organisation CCExtractor to add support for extraction of bitmap-based subtitle frames from DVDs, and to export results to text files. (project page)

#### **PUBLICATIONS**

R Garg, Y Baweja, S Ghosh, M Vatsa, R Singh, N Ratha; "Heterogeneity Aware Deep Embedding for Mobile Periocular Recognition". IEEE International Conference on Biometrics: Theory, Applications, and Systems (BTAS) 2018 (pdf)

## **PROJECTS**

2020	fMRI response to	Used CNNs to classify fMRI BOLD
	Visual Stimuli	the original image from just the re
2019	Human Feedback +	Developed a Reinforcement Learni
	Demonstrations for RL	trations, which outperforms both
2019	Parallel program	Implemented a runtime scheduler
	runtime	parallel heterogeneous processes.
2018	Disentangling in	Worked on an independent research
	Facial Images	from the latent representations of

response using GANs. (code) ing algorithm using human feedback, and demons-

responses based on visual stimuli, and reconstruct

constituent methods. (code, video) r in C++ for optimizing energy efficiency of multiple

rch project to disentangle expression information of face images using non-adversarial autoencoders.

Advisor: Dr. Saket Anand

# Skills

Python, Java, C++, C, JavaScript Programming:

PyTorch, AWS Technologies, DynamoDB, React, SQL, MongoDB, OpenCV, Tensorflow Frameworks and Tools:

### HONOURS AND RECOGNITION

Dean's List, IIIT Delhi: Awarded for academic excellence for four consecutive years from 2015-19. 2016-2018

Chairman's Merit Scholarship, IIIT Delhi: For a rank below 2000 (out of 1.2 million students) in JEE(Mains).