

Ankit Goyal

PhD Student, Princeton University

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📁 <https://imankgoyal.github.io/>

Education

- Present **Ph.D. Program in Computer Science, Princeton University.**
Advisor: Jia Deng
- Apr 2018 **M.S. in Computer Science and Engineering, University of Michigan.**
GPA: 3.97/4.0, Track: Artificial Intelligence
- Apr 2016 **B.Tech. in Electrical Engineering, Indian Institute of Technology (IIT) Kanpur.**
CPI: 9.8/10.0, Minor: Computer Science

Publications

- 2020 **PackIt: A Virtual Environment for Geometric Planning.**
A Goyal, J Deng
International Conference in Machine Learning (ICML)
- 2019 **Semantic Relation Detection Between Construction Entities To Support Safe Human-Robot Collaboration in Construction.**
D Kim, **A Goyal**, A Newell, S Lee, J Deng, V Kamat
ASCE International Conference on Computing in Civil Engineering (i3CE)
- 2018 **Think Visually: Question Answering through Virtual Imagery.**
A Goyal, J Wang, J Deng
Annual Meeting of the Association of Computational Linguistics (ACL)
- 2017 **ProtoNN: Compressed and Accurate kNN for Resource-scarce Devices.**
C Gupta, AS Suggala, **A Goyal**, HV Simhadri, B Paranjape, A Kumar, S Goyal, R Udupa, M Varma, P Jain
International Conference in Machine Learning (ICML)
- 2016 **A Multimodal Mixture-of-Experts Model for Dynamic Emotion Prediction in Movies.**
A Goyal, N Kumar, T Guha, SS Narayanan
IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)
- 2015 **Object Matching using Speeded Up Robust Features.**
NK Verma, **A Goyal**, AH Vardhan, RK Sevakula, A Salour
Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES)
- 2015 **Template Matching for Inventory Management using Fuzzy Histogram and Spatial Filters.**
NK Verma, **A Goyal**, A Chaman, RK Sevakula and A Salour
IEEE Conference on Industrial Electronics and Applications (ICIEA)

Work Experience

- Summer 2016 **Research Intern, Microsoft Research (MSR).**
Mentor: Prateek Jain
Developed ML models for IoT devices. Proposed ProtoNN, a model inspired from K-Nearest Neighbour (KNN) model that could fit in devices with only 2kB RAM and still produce accurate predictions.

Summer 2015 **Research Intern**, *University of Southern California (USC)*.

Mentor: Shrikanth S. Narayanan

Developed models for emotion prediction in movies. Proposed a mixture-of-experts model that dynamically combines audio-visual cues for predicting evoked emotions in movies.

Teaching Experience

Fall 2018 **COS429 Computer Vision**, *Princeton University*.

Head Teaching Assistant

Fall 2017, **EECS442 Computer Vision**, *University of Michigan*.

Winter 2018 Graduate Student Instructor

Service

2013-15 **Counselling Service**, *IIT Kanpur*.

- **Assistant Coordinator**: Responsible for managing sensitive situations in the undergraduate community and organizing week-long orientation for over 800 freshmen
- **Academic Mentor**: Mentored students struggling academically.
- **Student Guide**: Ensured smooth induction of 6 freshmen into the college environment.

Awards and Achievements

2016 **Sridhar Memorial Prize**, *IIT Kanpur*.

Awarded to the best student in the Department of Electrical Engineering.

2015 **Viterbi-India Scholarship**, *USC and Indo-US Science and Technology Forum (IUSSTF)*.

Selected for the prestigious Viterbi-India Program to conduct research in USC.

2013-2015 **Academic Excellence Award**, *IIT Kanpur*.

Awarded for distinctive academic performance for 3 consecutive years.