

VYSHNAVI GUTTA

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EDUCATION

- **Georgia Institute of Technology** Atlanta, GA
Master of Science in Computer Science; GPA: 4.00 Aug. 2021 – Present
- **International institute of Information and technology** Hyderabad, India
B.Tech and M.S by Research in Computer Science and Engineering; GPA: 8.03/10.0 Aug. 2014 – Oct. 2019

PUBLICATIONS

- **An improved HIL model for fine-grained recognition with batch-based question answering**
International Conference on Data Sciences and Management of Data, 2020 [Paper link](#)
 - Proposed *locality degree of an attribute in a cluster* for mitigating cost-sensitivity in recognition systems. Achieves **8% improvement** over the state-of-the-art in the metrics accuracy and computation time.

EXPERIENCE

- **Georgia Institute of Technology** Atlanta, GA
Graduate Teaching Assistant for CS4400, Intro to Databases Aug 2021 - Present
Graduate student researcher under Prof. Dr. Ling Liu Jan 2022 - Present
 - **Adversarial gradient attacks on real-time object detection:** Developing a universal adversarial perturbation technique for video-level privacy preservation against state-of-the-art deep object detection networks.
- **Reliance Jio** Hyderabad, India
Data Scientist Nov 2019 - July 2021
 - **Domain-agnostic query intent detection:** Conducted multi-source domain adaptation using large pretrained models. Serving ~ **2000 clients** daily.
 - **NLU for medical sense disambiguation:** Used Induction neural network for slot filling in a few-shot setting. Achieved SOTA with just **60% of the data**.
 - **Transliteration with monotonic local attention:** Syllabified transliteration for training Seq2Seq net via Sonority Sequencing. Scalable to **8 language scripts**.
- **International institute of Information and technology** Hyderabad, India
Research assistant May 2017 - Dec 2017
 - **CropDarpan:** Led and designed Hierarchy-based knowledge acquisition and Coverage-set based QA models on visual symptoms of affected crops for pest prediction.

PROJECTS

- **Deep reinforcement learning for autonomous driving:** Working on leveraging deepRL techniques for improving average return performance in AD simulation environments.
- **Representation learning via multi-view contrastive selection:** Optimal view-selection for obtaining better image representations with info-min and multi-view contrastive learning. **4.5% improvement** overall w.r.t. SOTA.
- **Geo-location prediction on twitter data:** Developed **GeoAttn**, a **scalable and memory-efficient** deep CNN model for location prediction from tweets.

PROGRAMMING SKILLS

- **Programming:** C++, Python, Docker, PHP
- **Frameworks:** Tensorflow, Pytorch, OpenCV, Numpy, Scikit-learn

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank of 1004** in **JEE-Mains 2014** among 1.2 million candidates.
- Received **Academic Excellence Award** in the academic session 2016-17 from IIIT Hyderabad.

RELEVANT COURSEWORK

- **Computer Science:** Computer Vision, ML with Limited Supervision, Reinforcement learning, AI, Data Structures
- **Mathematics:** Probability and Statistics, Linear Algebra, Analytical Calculus, Complexity analysis