Anisha Gunjal

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EDUCATION

- **The University of Texas at Austin** — Austin. TX
  Master of Science in Computer Science; GPA: 4.0 — *Aug. 2022 – Present*

- **Pune Institute of Compute Technology** — Pune, India
  Bachelor of Engineering in Computer Science; GPA: 3.86 — *July 2014 – July 2018*

SKILLS

- **Languages**: Python, C, C++, MATLAB, Julia, Unix Shell, CUDA programming

- **Frameworks**: PyTorch, Tensorflow, Caffe, Keras, OpenCV, Flask, Scikit-Learn, Selenium, Cython

- **Tools**: AWS, Git, Tableau, GCP, Docker, Airflow, Kubernetes, Kubeflow, AWS Lambda, Boto3, Gitlab CI

- **Research Areas**: Natural Language Processing, Computer Vision, Reinforcement Learning, Machine Learning

WORK EXPERIENCE

- **Scale AI** — San Francisco, CA
  Machine Learning Research Engineer Intern - Foundational ML — *May. 2023 - Aug 2023*
  - **Hallucination Prevention in Large Vision-Language Models**: Fine-grained multimodal hallucination detection using reward models to predict unfaithful vision-language model generations. Submitted to AAAI 2024.

- **TAUR Lab, The University of Texas at Austin** — Austin, TX
  Graduate Research Assistant; Supervisor: Prof. Greg Durrett — *Aug. 2022 - Present*
  - **Natural Language Processing**: Abstract event extraction from large language models through probing mechanisms.

- **CLVR Lab, University of Southern California** — Los Angeles, CA
  Research Scholar; Supervisor: Prof. Joseph Lim — *Jun. 2021 - May 2022*
  - **Task-Induced Representation Learning**: Evaluate the effectiveness of representation learning on complex robotics environments with substantial distractors. Work published in ICLR 2022.
  - **Language Skill Learning**: Leveraging natural language descriptions of tasks to enhance skill exploration and learning in robotic environments.

- **HyperVerge, Inc.** — Bangalore, India
  Senior Machine Learning Engineer - Documents AI Research — *Jun. 2018 - May 2021*
  - **Document Information Extraction**: Building and maintaining state of the art OCR Systems using Computer Vision for identity documents of India, Vietnam, and Malaysia which served over 280 million people in 2019.
  - **Data-Efficient Key Entity Recognition**: Pre-training and finetuning Large Language Models in low-data regimes for unstructured documents.

PUBLICATIONS

- **Detecting and Preventing Hallucinations in Large Vision Language Models, Submitted to AAAI 2024**: **A. Gunjal*** , *J. Yin*, E. Bas*
- **Drafting Event Schemas using Language Models, Submitted to EMNLP 2023**: **A. Gunjal** , *G. Durrett*
- **Task-Induced Representation Learning, ICLR 2022**: *J. Yamada, K. Pertsch,* **A. Gunjal** , *J. Lim*
- **Diabetic Retinopathy Grading using Deep Siamese Network, ICML 2018 Workshop on Comp Biology**:

PROJECTS

- **Document Visual Question Answering Challenge, CVPR 2020**: Ranked 4th in this visual question answering challenges competing against top Document AI Labs. Approach published in a blogpost.

SOCIETIES AND INVOLVEMENTS

- **WiML Workshop, ICML 2021**: Volunteer
- **JupyterCon 2020**: Reviewer