

Shruti Raghavan

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EDUCATION

University of Texas at Austin

Austin, Texas, USA

Master of Science in Computer Science

May 2024 (Expected)

Relevant Coursework: Predictive Machine Learning, Convex Optimization, Ethical AI, Natural Language Processing, Biostatistical Methods

Indian Institute of Information Technology, Design, and Manufacturing

Kancheepuram, India

Master and Bachelor of Technology in Computer Engineering | GPA: 9.34 / 10.00

May 2021

Relevant Coursework: Machine Learning, Deep Learning, Computer Vision, Pattern Recognition

TECHNICAL SKILLS

Languages: Python (PyTorch, Tensorflow, NumPy, Scikit-Learn, Pandas), C++, SQL

Entrepreneurship: Design Thinking, Sociology of Design, Product and Innovation Management

Areas of Interest: Machine Learning, Data Science, Predictive Modeling, Optimization

WORK EXPERIENCE AND INTERNSHIPS

Computational Visualization Center|Oden Institute, UT Austin

Jan 2023 – Present

Graduate Research Assistant

Austin, Texas

- Applying Reinforcement Learning methods for early identification of biomarkers of Parkinson's disease

Quantitative Translational Imaging in Medicine|Harvard Medical School

June 2021 – June 2022

Visiting Graduate Research Intern

Cambridge, Massachusetts

- Achieved 95.4% accuracy in detecting renal abnormalities from free-text electronic health records using NLP-based algorithms
- Built a multimodal dataset for learning bio-medical vision-language groundings using transformer models by developing condensed captions from chest x-ray reports

Computer Vision Lab—IIT Madras

May 2019 – July 2019

Computer Vision Intern

Chennai, India

- Developed an algorithm to perform referring expression semantic segmentation using dense upsampling convolution-hybrid dilated convolution
- Demonstrated the presence of biases in visual question answering models due to language priors in training data

PUBLICATIONS

AdrenoBERT: Automated Multiclass Categorization of Adrenal Abnormalities from Free-Text Radiology Reports using Transformer Language Models | *Academic Radiology* | *Under Review* | **First Author** | October 2022

- A BioBERT-based model that performs binary and six-class classification with 0.95 F1 score on adrenal abnormalities found in abdominal CT reports
- Abstract **orally presented** at **Radiological Society of North America** 2020 Scientific Assembly and Annual Meeting

LEADERSHIP | TEACHING EXPERIENCE

Graduate Teaching Assistant, ML Toolbox for Text Analysis

Spring 2023

Prof. Jessy Li | Dept. of Linguistics

UT Austin

- Responsibilities: Explaining concepts during office hours, assigning and grading homework, conducting programming tutorials

Zerone, CS Club, IIITDM

2018-2020

Co-Founder | Board Member

IIITDM

- Co-founded the club and headed a 5-member vertical team that organized invited lectures by experts in the field to expose students to state-of-the-art practices in Computer Science