

Shriya Atmakuri

✉ satmakuri@umass.edu

☎ 617-816-1256

♀ She/Her

in [/shriya-atmakuri](#)

🌐 [/ShriyaA](#)

Education

University of Massachusetts Amherst

MS Computer Science

Jan 2020 – Dec 2022

Amherst, MA

Research

UMass Amherst Information Extraction and Synthesis Lab

- > Conducted research on region-based word embeddings and aided development of the Word2Box model.
- > Published: "Word2Box: Capturing Set-Theoretic Semantics of Words using BoxEmbeddings", ACL 2022

UMass Amherst Industry Mentorship Program

- > Tested robustness of explanation methods commonly applied to NLP models through extensive experimentation
- > Published: "Robustness of Explanation Methods for NLP Models", Workshop on Trustworthy Artificial Intelligence in conjunction with ECML/PKDD 22

Work Experience

J.P. Morgan Chase & Co. | Machine Learning Center of Excellence

AI & Data Science Associate

Jun 2022 – Aug 2022

New York, NY

- > Conducted experimentation on multi-document summarization and headline generation which was a new area for the team.
- > Performed all stages of model development including literature review, data analysis, prototyping, fine-tuning, evaluation, ablation experiments, and writing annotation guidelines.
- > Significantly reduced training time and compute from state-of-the-art model without much loss in performance. Applied and compared various language models (PEGASUS, BART, GPT-3) to the task.

Microsoft | Azure Backup Team

Software Engineer

Jun 2018 – Apr 2020

Hyderabad, India

- > Developed in C# and worked on both microservices and client-side agent.
- > Designed and implemented a feature to manage agent configuration through services which reduced resolution time of customer support cases.
- > Streamlined and sped up deployment of the backup service in new regions using Azure Pipeline.

Projects

Using Question Generation with Conversational Question Answering

- > Implemented a BERT-based Conversational Question Answering system and a GPT-2 based Question Generation model. Experimented with retraining the QA system using generated questions.

Supervised Clustering for Fact-Checked Claim Retrieval

- > Tackled the task of fact-checking input claims given a set of previously fact-checked claims. Used siamese-style BERT dual-encoder architecture for clustering.

Skills

Languages & Libraries Python, C#, Java, PyTorch, HuggingFace Transformers, spacy, scikit-learn, nltk, gensim, seaborn, pandas, pytorch-lightning

Areas Natural Language Processing, Deep Learning, Machine Learning, Data Science

Coursework Advanced Natural Language Processing, Conversational AI, Machine Learning, Neural Networks, Computational Psycholinguistics