

Aryan Shetty

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Education

New York University - Courant Institute of Mathematical Sciences / New York, NY

Masters in Computer Science

Sep 2022 - May 2025

GPA: 3.6

- Deep Learning, Natural Language Processing, Fundamental Algorithms, Predictive Analytics, Computer Vision

Texas A&M University / College Station, TX

BS in Computer Science, Minor in Economics - Magna Cum Laude

May 2022

GPA: 3.8

- Data Structures, Discrete Math, Recommender Systems, Machine Learning, Parallel Computing

Experience

OpenAds | Machine Learning Engineer

New York, NY

Jun 2023 - Present

- Built a **commercial relevance classifier** for over **200k+** user searches to inform a recommendation system that matched searches with relevant advertisers with **92% accuracy**. Led machine learning initiatives to **reduce cost per action by 10%** at a fast moving startup.
- Designed, built, and fine-tuned a novel scalable model (hosted on AWS) that powered a generative ad agency. Work was demoed at **AWS' AI accelerator**, contributing to successful fundraising efforts and client acquisition
- Evaluated emerging large language model **academic research** — (StepBack, AutoPoison, HyDE) with new industry tools (Pinecone, GPTs) to continuously update a state of the art model via **Amazon Sagemaker**. Tested **Hugging Face** resources to finetune ad generation

CIMS | Research Assistant

New York, NY

New York, NY

Aug 2023 – Jan 2024

- Implementing **natural language understanding** methods to evaluate a large **language model's** ability for abstraction and reasoning in generating creative text and evaluating results against similar human text as sourced from r/writingprompts on Reddit
- Researching novel text evaluation metrics to measure abstraction, topic understanding, perplexity, and semantic burstiness under Dr Saining Xie

Highlight | Performance Optimization Intern

Seattle, WA (Remote)

Aug 2021 – Oct 2021

- Designed and implemented a model to grow client acquisition using a demographics based approach via **Python, Numpy, and Tensorflow** that generated a **40% increase** in client engagement
- Developed lead generation scripts via **BeautifulSoup/Scrapy** and automated outreach campaigns via **Apollo**

Data Lab @ TAMU | Research Assistant

College Station, TX (Remote)

May 2021 – Oct 2021

- Extended functionality of an anomaly detection platform by implementing models in **Python**. Incorporated primitives for testing algorithms such as **Isolation Forest, Telemanom, Variational Autoencoder** for 0 loss in **accuracy**
- Integrated models via **Keras**, enabling autonomous optimal model selection based on use case data

Citrix Systems | Software Engineer Intern

Dubai, UAE

May 2019 - Aug 2019

- Developed a **C++** app that provided end to end automation for generating sales documentation, reduced instance processing time by **90%** saving the company over **3 hrs/week**
- Wrote **SQL** queries that used user input to search **Azure** database

Core Competencies

Programming Languages: Python, C++, Javascript, TypeScript, SQL, CUDA, Java, C, HTML/CSS, Swift

Data and ML: PyTorch, Numpy, Keras, Sklearn, Pandas, Hadoop, Tensorflow, Apache Spark, Sagemaker, Langchain

Frameworks: AWS, NodeJS, React, Express, MongoDB, Postgre, Django, Jupyter, Git, Google Data Studio, Pinecone

Projects

Contextual Textual Argument Detection Model - Dr Adam Meyers

Dec 2022

- Developed a deep learning model using graph convolutional networks (GCNs) and Bi-LSTMs to improve multi-argument identification and classification for context understanding on the Nombank dataset

Other Experience

TAMUhack | Logistics Lead - Led a team of 10 to organize logistics for Texas' largest hackathon.

Texas A&M University

Mar 2019 - Mar 2022

Explorations Research Journal | Editorial Board Member - Edited manuscripts prior to publication

Texas A&M University

Mar 2019 - Mar 2022