Aryan Shetty

Github - @aryanshetty711

as17388@nyu.edu

858-888-2139

Education

New York University - Courant Institute of Mathematical Sciences / New York, NY — Sep 2022 - *May 2024*
Masters in Computer Science — GPA: 3.6
- Deep Learning, Natural Language Processing, Fundamental Algorithms, Big Data Science

Texas A&M University / College Station, TX — *May 2022*
BS in Computer Science, Minor in Economics - Magna Cum Laude — 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 at a fast moving startup, addressed business problems by engineering tailored solutions
- 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 academic research (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

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: (Proficient): Python, C++, Javascript (Experienced): TypeScript, SQL, CUDA, Java, C, HTML/CSS
Data and ML: PyTorch, Numpy, Keras, Sklearn, Pandas, Hadoop, Tensorflow, Apache Spark, Sagemaker, Langchain
Frameworks: AWS, NodeJS, React, Express, MongoDB, PostgreSQL, Jupyter, Git, Google Data Studio, Pinecone, Supabase

Projects

Anonymous Review/Hiring Trends based Stock Prediction Model / Dr Anasse Barri — *Jan 2023*
- Developing a predictive model for stock prices by analyzing company hiring trends and anonymous reviews using machine learning techniques and multiple data sources, including the Glassdoor, Kaggle, and Blind APIs

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*