SHASHANK SRIKANTH

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EDUCATION

Masters in Computer Science, Georgia Institute of Technology — Aug 2021 - May 2023
Specialization in Machine Learning **GPA: 4.0/4.0**.

Bachelors in Computer Science, IIIT Hyderabad (**GPA: 3.96 / 4.0**) — 2016 - 2021
Courses: Data Structures, Algorithms, Operating Systems, Databases, Distributed Systems, Networks, Computer Architecture, Software Engineering, Machine Learning, NLP, Computer Vision, Robotics, AI, Reinforcement Learning, Blockchain

SKILLS

Languages Python, C/C++, Java, JavaScript, Bash, SQL, HTML/CSS
Frameworks/Tools PyTorch, Tensorflow, Selenium, Elastic Search, Flask, Node.js, Git, Docker, ROS, Linux

PUBLICATIONS

INFER: INtermediate representations for Trajectory Forecasting.	Machine Learning	IROS 2019
Driving the Last Mile: Characterizing & Understanding Distracted Driving Posts.	Computer Vision	ICWSM 2020

EXPERIENCE

Software Engineering Intern — Aug 2022 - Dec 2022
Amazon Robotics — *Boston, Massachusetts*

- Working on developing the latest version of the Video Clipping Service (VICS) using AWS Cloud Formation templates and AWS lambda infrastructure. VICS helps in trimming the video sizes sent for manual annotations, thus helping reduce labor costs. Utilized: Kotlin, Python, Typescript, AWS Lambda, CDK.

Software Engineering Intern, Machine Learning Platform — May 2022 - Aug 2022
Netflix — *Los Gatos, California*

- Implemented systems for visualizing & monitoring (alerting) of system-level metrics for jobs written using Metaflow, an OSS framework for data-science workflows. Utilized: Python, Elastic Search, Kafka, Druid.
- Utilized Kafka queues to insert over 100,000 system-level metric utilization queries into Apache Hive tables daily. Generated Tableau visualizations for these metrics to gain insights about researcher velocity metrics.
- Implemented a module to allow profiling of python codes with Flame-graphs and stack-traces using python decorators.

Software Engineering Intern — July 2020 - Sep 2020
Relation Therapeutics — *London, UK*

- Implemented a novel deep learning model that combined HMM embeddings and BERT-embeddings to learn protein embeddings that were suitable for domain-specific regression and classification tasks.
- Achieved 4% improvement in test-set accuracy by performing Bayesian hyperparameter optimization using Ray Tune.

Machine Learning Research Assistant — July 2018 - May 2021
Robotics Research Center, IIIT-Hyderabad — *Hyderabad, India*

- Wrote scripts to collect training data of autonomous driving simulation videos of traffic interactions on a remote server. Used an Unreal Engine based open-source simulator (CARLA) for data collection. Utilized: Python, Cron, AWS S3.
- Achieved over 10% improvement in the task of **trajectory forecasting** on the above dataset; Implemented a novel ConvLSTM model with skip connections and birds-eye-view intermediate representations for this task.

PROJECTS

Distracted Driving Classification — **Web Scraping, Computer Vision**

- Implemented a web-scraper using Selenium to collect over **6 million** videos from Snapchat Maps by simulating user-clicks on a browser. Implemented 3D ResNets to classify the 6 million videos for distracted driving posts and achieved an accuracy of over 94% on held-out test set.

Wikipedia Search Engine — **NLP, Python**

- Implemented an efficient search engine for Wikipedia data (**40 GB**) using **Python** & **TF-IDF** query ranking.

StackOverFlow Web App — **Web Development**

- StackOverFlow clone website using **Flask**, **JS** & **SQLAlchemy** with asynchronous like/dislike system based on **Ajax**.