Sravya Amudapuram

https://github.com/sravya-a

EDUCATION

University of Minnesota, Twin Cities

Master's in Computer Science; 3.95/4.0

Minneapolis, U.S Sep'18 – June'20

Indian Institute of Technology

Bachelor of Technology in Mathematics and Computing

Guwahati, India Jul. 2011 – Jun. 2015

Email: amuda005@umn.edu

Mobile: +1-612-757-2858

Programming Skills

- Languages: Go(Intermediate), Java(Advanced), C/C++(Advanced), Python(Advanced), Shell Scripting
- Technologies: TensorFlow, Keras, PyTorch, OpenAI Gym, Kafka, Hadoop, AWS, Spring, InfluxDB, MySQL
- Relevant Coursework: Machine Learning for Systems, Intro to Data Mining, Recommender Systems, Machine Learning, Distributed Systems

ACADEMIC PROJECTS

- Speech Emotion Analysis (Graduate Research Assistant): Built an interactive application to collect raw audio data for emotion analysis. Implemented a RNN(used CNNs to tune features) with RAVDESS data as training set to classify 8 different emotions with 64% accuracy
- Denoising AutoEncoder: Developed a model using PyTorch that denoises images using an auto encoder. It denoises MNIST images with gaussian noise to human-readable images. Also, implemented a Variational AutoEncoder with fully connected layers to denoise MNIST images.
- **Histopathologic Cancer Detection**: Built a binary classifier that detects a tumor in the given image with AUROC score of .96. Implemented a model with weights initialized from transfer learning of Xception and NASNet
- Movie Recommender: Built a neural network recommender for movies, using keras on the MovieLens 1M dataset which strives to minimize RMSE. This model beats the FunkSVD, ALS recommender performance.
- Routing in ad-hoc Cognitive Radio Networks using game theory: Analyzed the routing challenges incurred by spectrum mobility in ad-hoc cognitive radio networks. Designed a routing protocol using game theory to address trade-off between routing and switching costs in such networks

EXPERIENCE

HPE Nimble Storage

Durham, U.S.

Senior Software Developer

July 2020 - Current

• Alerts & Recommendations: Designed a containerized micro-service that maintains alerts from various components such as storage systems, cloud components, etc., for a customer to investigate and act. Developing APIs in Go to support CRUD operations and IPC mechanisms using Kafka, GRPC, MySQL along with unit tests and a CI pipeline.

HPE Nimble Storage

Durham, U.S.

Software Developer Intern

May 2019 - Aug 2019

• Monitoring & Analytics Platform: Designed a prototype that collects data from Proxies, Switches, Storage Arrays, AWS and Azure VMs and stores in a time-series DB for dashboards and real-time alerting

Visa Inc

Bangalore, India

Senior Software Engineer

Jul 2015 - July 2018

- Search Platform: Developed a Search Platform, a multi-threaded, high-throughput and reliable Java service to connect Kafka and Solr for faster querying in real time, using Apache Solr, Kafka, and Zookeeper
- **mVisa**: Built a completely configurable and customizable mobile SDK to help maintain uniform user interface across mVisa(Scan QR & Pay) enabled applications

Samsung Research and Development

Bangalore, India

 $Student\ Trainee$

May 2014 - Jul 2014

• Developed a platform-independent client manager interface to pipeline the communication between clients and server to maintain a uniform interface for applications running on Android and Tizen