Adithya Narayan

Boston | +18573761515| Canadian Citizen
narayanbadanidiyoo.a@northeastern.edu | https://www.linkedin.com/in/adithya-narayan-073067100/
Available: June 1st 2023

EDUCATION

Northeastern University, Boston, MA   Expected March 2024
Khoury College of Computer Sciences
Candidate for a Master of Science in Computer Science
Related courses: Programming Design Paradigms, Database Management Systems

Ramaiah Institute of Technology, Bangalore, India   September 2020
Information Science
Related courses: Object Oriented Programming, Data Structures, Databases, Software Engineering

TECHNICAL SKILLS

Languages	Java, Python. Go, Bash
Backend	Flask, gRPC, Kubeflow, Redis, gomux, FastAPI, Docker,MySQL, MongoDB, PostgreSQL, pytest
AWS	S3, EC2, Lambda
Machine Learning	Sequence Modeling, GMMs, HMMs, Deep Learning, Pytorch, Kaldi, Pandas, Numpy, sklearn

WORK EXPERIENCE

Skit.ai, Bangalore, India   December 2021 - August 2022
Research Engineer
- Designed Tools and helped develop Kubeflow Pipelines to load,query and benchmark speech recognition models at scale. Reduced end-to-end experiment execution and setup time from 30 hours to 35 minutes.
- Developed a gRPC API to help generate and unify spoken language corpora from different sources(EC2 instances, S3 Buckets) into a single source on S3. Improved Numeric Speech Recognition SER(Sentence Error Rate) by 24 percent. Built a custom API testing suite for the above using pytest.
- Utilized Bash, Python and golang to design CLI tools to merge and preprocess large spoken corpora and model configuration files at scale. Decreased experimentation setup time from 1 day to 1 hour.
- Trained Alphanumeric Speech Recognition Models using Hybrid HMM-GMM architectures. Reduced Error Rate from 78% to 53%.

Stride.AI, Bangalore, India   March 2021 - May 2021
SDE - Data Science
- Used redis, celery and Gunicorn to refactor Stride's Multilingual Keyphrase recognition API. Improved API response time by 50% and performed load/functional testing.
- Mentored an intern in building an end-to-end CLI-based Document Annotation tool, that could load, extract and store visual features for scalable vision-based document comparison.

Shell India, Bangalore, India   September 2020 - March 2021
IT Software Engineer
- Implemented SQL and Object Oriented ABAP to devise bank specific regulatory services for international payments. Wrote a white paper for Knowledge documentation and dealing with similar use cases.
- Built a MVC Web App for monitoring retail data using SAP UI5 and Javascript.
- Rewrote reporting interfaces and queries to perform OLAP using OpenSQL and S4/HANA.

LEADERSHIP EXPERIENCE

- Placed 10th internationally and second in the Asian continent in the AUVSI SUAS(Association of Unmanned Vehicles Systems International , Student Unmanned Aerial Systems)
- Currently mentor an undergraduate robotics club. Come up with strategies and blueprints to participate and win both national and international robotics competitions.

PROJECTS

- BotBuilder: Designed a general purpose framework to train, retrain and deploy voice assistants. Built an React based API testing dashboard to record response times and identify bottlenecks in several text and speech processing workflows. Deployed this framework as an API on AWS EC2. Reused intent identification and entity extraction models using NLTK and sklearn, and deployed these as lambda functions on AWS.