

Adithya Narayan

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Available: June 1st 2022

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 Paradigm, Algorithms, Database Management Systems, Game AI

Ramaiah Institute of Technology, Bangalore, India

September 2020

Information Science, 3.2/4

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, JMeter

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 and Developed Kubeflow Pipelines to load, query and benchmark speech recognition models at scale. Helped reduce end to end experiment execution and setup time from 30 hours to 35 minutes.
- Developed a scalable text generation and storage API to help generate and unify spoken language corpora from different sources into a single source on S3. Improved Numeric Speech Recognition SER (Sentence Error Rate) by 24 percent.
- Built CLI tools to merge and preprocess large spoken corpora and model configuration files at scale. Improved 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

- Refactored Stride's Multilingual Keyphrase recognition API to work with Spanish. Performed Load Testing and Functional Testing to benchmark the API. Diminished API error rate by 30 percent and overhauled API RPM by 50%.

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

- Represented RIT in the AUVSI SUAS 2018. Placed 10th internationally and second in the Asian continent.
- 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 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.
- Constructed an UAV capable of navigation and data capture/processing. Designed Image Processing pipelines and networking infrastructures for data capture, transmission and preprocessing using OpenCV and Bash

ADDITIONAL INFORMATION

Personal Website: <https://badirao.github.io/>
Canadian Citizen requiring no work authorization.