SUMUKH S BADAM

SENIOR RESEARCH ENIGNEER

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SKILLS SUMMARY

●●●● Python

●●●● Pytorch

●●●● Tensorflow

●●●● C++

●●●● C

CERTIFICATION

🔖 Deep Reinforcement Learning
Nano Degree by Udacity (2019)

WORK REFERENCES

Dr. Sharath Adavanne
Senior Research Scientist
Zapr Media Labs
sharath@zapr.in

PERSONAL PROFILE

I am a Research engineer **employing** ML and Deep learning techniques for analysis of Audio and Speech content .

WORK EXPERIENCE

Senior Research Engineer
Zapr Media Labs | Feb 2019 - present

- Developed speaker verification module based on speaker embedding extracted using deep learning method.
- Implemented and improved multispeaker neural text to speech (NTTS) by employing speaker embedding.Enabling speech synthesis of speaker unseen during training with as little as 30s of audio sample.
- Adapted the NTTS to support prosodic features like speech rate, pause break, and volume in a controllable manner.
- Developed speech enhancement algorithm using Denoise Autoencoder and integrated it into the ASR pipeline.
- Developed punctuation restoration module for Indian languages and integrated it into the ASR pipeline.
- Low resource TTS engine I developed won the national level challenge organized by the Govt of India in collaboration with IIT Madras

Senior Software Engineer
Sirena Technologies | Sep 2014 - Feb 2019

- Developed an Automatic Speech Recognition engine using CTC based framework for Indian English, achieved a WER about 20%.
- Developed a Wake Word Engine to trigger audio commands on the robot. The system had an accuracy of 85%.
- Developed toolkit for teaching and evaluating Visual Programming for kids using WX python.

EDUCATIONAL HISTORY

Manipal Institute of Technology
B.E Electronics and Communication | Jul 2010 - May 2014

- GPA: 9.1/10
- Prototyped a Medical Reminder Device under the supervision of Prof. Anil Tumkur. Data Collected by the device was used in his thesis work.
- Secured 9th position out of 60 competing teams at the national level competition held by ABU Robocon in 2013. Developed an autonomous robot to perform pick and drop tasks within 2 mins.