Hemlata Tak

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SUMMARY

Applied Scientist II intern with Amazon, focused on unsupervised and self-supervised speaker recognition projects. Machine Learning Engineer experience with Meeami Technologies, developing speaker recognition systems using DNN, CNN, RNN, and 2D-CRNN. Holds PhD in speaker recognition and audio deepfake detection; seeking Applied Scientist role to leverage deep learning and signal processing expertise.

WORK EXPERIENCE

Amazon Seattle, WA, USA
Applied Scientist II, Intern Aug 2022 - Nov 2022

- Developed an semi-supervised speaker recognition system, enhancing semi-supervised speaker recognition performance.
- Improved standard benchmark performance to reach state-of-the-art levels in speaker recognition.
- Integrated innovative methods to push the boundaries of semi-supervised speaker recognition.

Meeami Technologies Hitech city, Hyderabad
Machine Learning Engineer Sep 2018 - Sep 2019

- Utilized Signal Processing and Deep Learning methodologies (DNN, CNN, RNN, and 2D-CRNN) in developing Speaker Recognition systems.
- Engineered a text-dependent speaker recognition system using a deep neural network approach.
- Led the development and implementation of machine learning models for speaker recognition, improving overall system performance.

EDUCATION

Sorbonne universite Paris, France
Doctor of Philosophy (Phd) in speaker recognition and audio deepfake detection 2019 - 2023

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT) Gandhinagar, India
M.Tech, Information Communication Technology 2016 - 2018

Sir Padampat Singhania University Udaipur, India
B.Tech., Electronics and Communication Engineering (ECE) 2011 - 2015

SKILLS

Graph Neural Network • Deep Learning • Speaker Recognition • Multi-Modeling • End-to-End Modeling • Audio Processing • Pattern Recognition • Audio Deepfake Detection • Anti-Spoofing • Signal Processing • Architecture Design • Python • PyTorch • PyTorch Lightning • Pandas • NumPy • Scikit-Learn • Keras • Matlab • Acoustic Feature Extraction • Data Analysis • Teamwork • Leadership • Machine Learning • Critical Thinking • Problem Solving