Shangeth Rajaa

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EDUCATION

BITS PILANI
B.E. in EEE and M.Sc. in Mathematics (Dual Degree)
May 2021 | Goa, India

LINKS

Github:// **shangeth**
LinkedIn:// **shangeth**
Twitter:// **@shangethr**
Google Scholar:// **Shangeth Rajaa**

COURSEWORK

UNIVERSITY
Neural Networks and Fuzzy Logic, Non-Linear Optimization, Probability and Statistics, Linear Algebra, Graphs and Networks, Numerical Analysis, ODE, PDE, Control System, Signals and Systems, Digital Image Processing

ONLINE
Deep Learning Nano degree
Deep Reinforcement Nano degree
Deep Learning Specialization
Machine learning(Stanford)
Stanford cs229, cs230, cs234

SKILLS

Languages: Python, C/C++, MATLAB, JS
Technologies: Git, AWS, GCP, Heroku, Flask, LATEX
Frameworks: PyTorch, TensorFlow

OTHER EXPERIENCE

- Instructor for Deep Learning course with **Google AI** Explore ML.
- Mentor at Google Code-In with **Tensorflow** org.
- DL Content Developer at **OpenCV.org**'s "Deep Learning with PyTorch" course.
- Lead DL Course Developer at MindRabbit, US.
- Software Developer at KGLLP FIntech, Bangalore, India.
- Research Collaborator at INRIA, Paris under Prof.Isabelle Guyon
- Author - **wavencoder**
- Organized Auto Deep Learning competitions for NeurIPS 2019

EXPERIENCE

ANYREACH AI | Senior Machine Learning Research Scientist
Feb 2025 - Present
- Multi-Modal LLMs for Speech understanding and translation
- Turn-Taking in Spoken Dialogue systems

SCORETRAVEL AI | Senior Machine Learning Researcher
Jul 2024 - Feb 2025

- Ranker algorithm for LLM-based Recommendation Engine
- Multi-Modal LLM for Short form video(eg: IG Reels) Understanding.

SKIT.AI(VERNACULAR.AI) | Machine Learning Researcher
Jun 2021 – Jul 2024 | Bangalore

- Speech Synthesis, Prosody Transfer, Voice Conversion, Prosody for SLU.
- Conversational agents with LLM, LLM Alignment for goal optimization with RLHF/DPO, **Multi-Modal LLM(Speech)**.

SPEECH AND LANGUAGE LAB, NTU | Research Assistant
Aug 2020 – Jun 2021 | Singapore

- Unsupervised/Semi-Supervised speech and speaker representations learning.
- Speaker Profiling (Height, Age, and Gender) and Accent Recognition/Accented Speech Recognition.

IBM RESEARCH LABS | Research Intern
May 2020 - Aug 2020 | Delhi, India
- Developed novel quality metrics and data transformations for structured data.
- Optimization of Data Quality transformations with Deep Reinforcement Learning.

PUBLICATIONS

[1] Z. Liu, Z. Xu, M. Madadi, J. J. Junior, S. Escalera, S. Rajaa, and I. Guyon. Overview and unifying conceptualization of automated machine learning. In *Workshop on Automating Data Science (ADS)*. ECMLPKDD, 2019.

[2] Z. Liu, Z. Xu, S. Rajaa, M. Madadi, J. J. Junior, S. Escalera, and I. Guyon. Towards automated deep learning:analysis of the autodl challenge series 2019. In *Proceedings of Machine Learning Research*. NeurIPSCD, 2020.

[3] S. Rajaa. Improving End-to-End SLU performance with Prosodic Attention and Distillation. In *Proc. INTERSPEECH 2023*, pages 1114–1118, 2023.

[4] S. Rajaa, K. Anandan, S. Dalmia, T. Gupta, and E. S. Chng. Improving spoken language identification with map-mix. In *ICASSP 2023 - 2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 1–5, 2023.

[5] S. Rajaa, S. Dalmia, and K. Nethil. Skit-s2i: An indian accented speech to intent dataset, 2022.

[6] S. Rajaa and J. K. Sahoo. Convolutional feature extraction and neural arithmetic logic units for stock prediction. In *International Conference on Advances in Computing and Data Sciences*, pages 349–359. Springer, 2019.

[7] S. Rajaa, P. V. Tung, and C. E. Siong. Learning speaker representation with semi-supervised learning approach for speaker profiling, 2021.