PAVAN SESHADRI

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EDUCATION

GEORGIA TECH
2017 - 2021

B.S COMPUTER SCIENCE
MINOR IN MUSIC TECHNOLOGY
FOCUS IN MACHINE LEARNING AND MEDIA

COURSEWORK

Deep Learning
Machine Learning
Robotics and Perception
Analysis of Algorithms Honors
Audio Recording & Mixing

AWARDS

President's Undergraduate Research Award (2020)
Eagle Scout Award (2016)

SKILLS

LANGUAGES

Python
Java
C/C++
Javascript
MATLAB

SOFTWARE

PyTorch
Numpy/Scipy
AWS
Linux/Bash
librosa
Ableton Live

EXPERIENCE

AUG 2021 - PRESENT

AMAZON
SOFTWARE DEVELOPMENT ENGINEER

· Software engineer on the product knowledge classification research group.
· Working on ML/NLP infrastructure to support deep learning based classification of products in the amazon marketplace.

JAN 2020 - MAY 2021

MUSIC INFORMATICS LAB, GEORGIA TECH
UNDERGRADUATE RESEARCH ASSISTANT

· Research on deep learning based methods for automatic music performance assessment (MPA).
· Published conference paper to ISMIR 2021 detailing supervised contrastive learning for music performance assessment [1].

MAY 2020 - AUG 2020

AMAZON
SOFTWARE DEVELOPMENT ENGINEER INTERN

· Designed and built an automatic threshold feature in a deep neural network training pipeline to support product classification.
· Feature leverages AWS lambda, EMR, S3, and Spark to reduce applied scientist effort from 45-75 hours to minutes.

PUBLICATIONS

JAN 2021 - MAY 2021

[1] **P. Seshadri**, A. Lerch, "Improving Music Performance Assessment With Contrastive Learning". *International Society for Music Information Retrieval Conference*, (ISMIR) 2021 ***(Conference Paper)***

MAY 2021 - OCT 2021

[2] Y. Hung, K. Watcharasupat, C.W. Wu, I. Orife, K. Li, **P. Seshadri**, J. Lee, "AVASpeech-SMAD: A Strongly Labelled Speech And Music Activity Detection Dataset With Label Co-Occurrence". *International Society for Music Information Retrieval Conference*, (ISMIR) 2021 ***(Late-breaking Demo)***

PROJECTS

MAY 2020 - PRESENT

DISCORD MEDIA BOT

· Developed youtube audio streaming features using ytdl and ffmpeg.
· Trained RoBERTa and GPT-2 models on 90K+ chat messages for classification and generation of phrases in the style of users.