

## WORK EXPERIENCE

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- **Amazon Music** Seattle, Washington  
*Data Scientist (L5)* *June 2023 - Present*
  - **Genre Embeddings:** Devised a patent-pending algorithm to create embedding representations of genres, that improved recommendations to drive an increase of 10.4M listening hours annualized
  - **Audio to Text:** Finetuned a text decoder model to generate natural language descriptions conditioned on the audio representation of a track.  
*Data Science Intern* *May 2022 - Aug 2022*
  - **Segmentation:** Define and build customer segments to aid in better breakdown of A/B experiment results. Customers were segmented based on their levels of engagement with the app
- **Nasdaq** Bangalore, Karnataka  
*Software Developer Specialist (New Markets Financial Framework)* *Nov 2019 - July 2021*
  - **Blockchain:** Integrated trading solutions with a ledger to facilitate real-time settlements  
*Senior Software Developer (New Markets Financial Framework)* *July 2018 - Nov 2019*
  - **Trading Solutions:** Built a marketplace for a healthcare client, to enable trade of patient health data

## EDUCATION

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- **University of Michigan** Ann Arbor, Michigan  
*M.S. in Applied Statistics; GPA: 3.95/4.0* *Aug. 2021 - May. 2023*  
*Statistical Learning, Data Science with Python, Probability Dist. Theory, NLP, Data Viz*
- **PES University** Bangalore, Karnataka  
*B.Tech in Computer Science; GPA: 9.08/10.0* *Aug. 2014 - May. 2018*  
*Data Analytics, Machine Learning, Cloud Computing, Design Patterns*

## TOOLS AND TECHNOLOGIES

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- **Languages:** Python, R, Java, Javascript, C/C++ **Technologies:** AWS, Docker, Kubernetes, Git
- **Libraries:** Pandas, Tensorflow, Numpy, SkLearn, PyTorch, HuggingFace **Frameworks:** Java Spring, React

## PROJECTS

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- **AI Based Musical Assistant for Pianists:** [CNN, N-Grams, MIDI APIs, [source](#)]
  - **Prototype:** Leveraged rules from music theory and ML models to improve self-efficacy in novice pianists
- **Analysis of trends in Competitive Coding:** [EDA, Visualization, Web-Scraping, [source](#)]
  - **Analysis:** Explored whether problem solving skills (in competitive coding) are an acquired or developed trait
- **Determine complexity of coding problem:** [LSTM, Neural Networks, [source](#)]
  - **Objective:** Used ML/DL to determine the complexity of a competitive coding problem, given a text prompt of the question (Accuracy: 60% for 3-way classification)
- **Query-able Indexes for Zoom meetings:** [AWS Lambda, Transcribe, S3, API Gateway]
  - **Hackathon:** Made Zoom meetings searchable for information presented in the recording
- **Witty Reddit Bot:** [HuggingFace, PyTorch, OpenPrompt, [source](#)]
  - **Course Project:** Fine-tuned a T5 LLM to reply to Reddit posts with sarcasm and wit