Bryant McArthur

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Education

BS, Applied & Computational Mathematics Emphasis (ACME)   **April 2023**
Brigham Young University   *Provo, Utah*
- Emphasis: Linguistics
- GPA: 3.95
- Full Academic Scholarship
- Relevant Coursework:

Natural Language Processing	Machine Translation
Linear and Nonlinear Analysis	Theory of Analysis
Computation and Optimization	Multivariable Calculus
Mathematical Programming	Statistics

Skills

- Proficient in Python, C++, Java
- Junior Year Skills:

Gradient Descent	Data Structures
Q-Learning	Unix Shell
Thompson sampling	Krylov Subspaces
A/B Testing	Singular Value Decomposition
Fourier Analysis	Numerical Linear Algebra

Experience

Head of Machine Learning   **May 2022 – Present**
Addavox   *Lehi, Utah*
- Developed, Customized and Trained Model for Voice Synthesis Retaining Vocal Qualities of Encoded Speech
- Implemened Speech and Source Separation with WavLM model.

Sales Rep Team Lead   **April 2020 – September 2021**
Moxie Services   *Dallas, Texas*
- Led the company nationwide consistently in individual sales door-to-door on a day-to-day basis
- Generated over $780,000 in revenue for Moxie
- Directed and incentivized team administratively to assure individual and group goals were achieved.

Full-Time Volunteer Representative   **January 2018 – February 2020**
The Church of Jesus Christ of Latter-day Saints   *Warsaw, Poland*
- I Supervised and trained 60 volunteers to help them work more efficiently
- Analyzed team statistics to determine weekly training topics which resulted in achieving group improvement goals

Relevant Projects

Multilingual Neural Machine Translation Model   **March 2022**
- Cleaned and Multi-way Aligned Data to train a Complete MNMT system for Polish, Spanish, Czech, English.
- Analyzed Bleu Scores with corresponding Bilingual Models on Untrained Language Pairs.

Speech to Speech Translation Model   **February 2022**
- Created Pipeline using Automatic Speech Recognition, Text to Text Machine Translation and Foreign Language Speech Synthesizer to recognize Audio input and output translated Foreign speech .wav file.