

Bryant McArthur

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Education

BS, Applied & Computational Mathematics Emphasis (ACME)

April 2023

Brigham Young University

Provo, Utah

- Emphasis: Linguistics
- GPA: 3.95/4.00
- Full Academic Scholarship
- Relevant Coursework:

Natural Language Processing
Linear and Nonlinear Analysis
Computation and Optimization
Mathematical Programming

Machine Translation
Machine Learning
Multivariable Calculus
Statistics

Skills

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

Gradient Descent
Q-Learning
Thompson sampling
A/B Testing
Fourier Analysis

Data Structures
Unix Shell
Krylov Subspaces
Singular Value Decomposition
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
- Implemented 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 and Responsible for over \$1 Million 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

- Supervised and Mentored 60 Volunteers to Encourage More Effective Work
- Analyzed Team Statistics and Led Weekly Trainings to Achieve 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 Models to Recognize Audio input and Output Translated Foreign Speech