Bryant McArthur

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Experience

Head of Machine Learning

May 2022 - Present

Addavox

Lehi, Utah

- Responsible for All ML and AI Models from Model Architecture Design, Data Collection & Processing, and Training
- Implement Model APIs into the Product Pipeline and Oversee Cloud Infrastructure for AI Workers

Machine Learning Engineer

June 2024 - August 2024

Ditto

Orem. Utah

Designed Cross-Lingual Prosody Mapping Text-To-Speech Model with Speaker Voice Cloning

Lead Consultant | Founding Partner | CFO

January 2022 - October 2024

Parsha Works

Provo, Utah

- Deployed and Sold Full-Stack Event Ticketing Software MVP in Three Months
- Built Software for Automated, Customized, and Timely Real Estate Leads

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

Education

Master of Computer Science

December 2024

Texas A&M University

College Station, Texas

- GPA: 3.86/4.00 Machine Learning Engineering Deep Learning, AI & Reinforcement Learning
- Data Mining and Analysis
 Algorithms & Optimization
 Distributed Systems & Cloud Computing

BS: Applied & Computational Mathematics Emphasis (ACME)

April 2023

Brigham Young University

Provo, Utah

• GPA: 3.93/4.00 Concentration: Linguistics Machine Translation & NLP

Publications and Projects

IEEE/CVF WACV 2025 Workshop: AI for Multimedia Forensics and Disinformation Detection

February 28, 2025

"HFMF: Hierarchical Fusion Meets Multi-Stream Models for Deepfake Detection"

Low Rank Adaptation

December 2023

• Finetuned Stable Diffusion Model to Generate Custom Pokemon Using Low-Rank Adaptation (LoRA)

Wildfire Predictions

April 2023

- Analyzed Wildfire Data Using ARIMA, HMM, Kalman Filter, and Prophet Models
- Accurately Predicted When and Where the Next Wildfires will Strike on a Regional Basis

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

Skills

•	AI, ML, DL	Python, R, Ruby, Javascript	Pytorch, Tensorflow, Cuda, Scikit-Learn
•	AWS, Google Cloud Console	Agentic AI, RAG , LLMs	Linear and Nonlinear Analysis
•	Data Structures	Statistics	Gradient Descent & Optimization Methods
•	Numerical Linear Algebra	ODEs, PDEs	Fourier Analysis, Kalman Filter

Volunteer Work

Club Officer

January 2024 - April 2025

College Station, Texas

Texas A&M Men's Soccer

Onlege Station, Texas

As Elected DK Coordinator: Manage Alumni Fundraising Events, Allocate Financials, Play and Compete with Team

Full-Time Volunteer Representative & Assistant to the President

January 2018 - February 2020

The Church of Jesus Christ of Latter-day Saints

Warsaw, Poland

Analyzed Statistics and Led Weekly Trainings to Achieve Group Improvement Goals for Entire Mission