

Michael Brown

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EDUCATION

The University of Texas at Austin

Fall 2024

Bachelor in Linguistics, Minor in Computer Science with a focus on Data Science

SKILLS

Python (Pandas, Seaborn, ML Libraries) **Linguistics** (Syntax, Semantics, French, NLP with Python)

Data Analysis (Python, Tableau, Excel) **Database Management** (SQL, NoSQL, Cloud Computing)

PROJECTS

Application for Podcast Translation

- Built a pipeline to transcribe & translate audio by optimizing a Whisper model to 2x transcription speeds, applying a transformer-based translation model, and creating an interactive app w/ NiceGUI.

Music Data Analysis & Predictive Modeling

- Analyzed and processed song data from Genius.com using Python, leveraged word embeddings to create song recommendations, and implemented machine-learning models to predict song metadata.

Analysis of NYC 311 Requests

- Created an interactive Tableau dashboard using request data from NYC's open data project, which involved preprocessing and integrating geospatial data using Pandas for effective analysis.

Project Lead on Game Development

- Led and organized a team over 6 months to develop and present a completed sidescrolling game. Collaborated with team members to coordinate tasks and meet project deadlines.

RESEARCH

Research Assistant on LLM Hallucinations

Sep 2024-Present

Assisting Sanjana Ramprasad, PhD, Northeastern University

- Analyzed the factuality of summaries generated by LLMs, identifying any inferences made and determining their relation, if any, to the source text.
- Identified differences between different LLMs and noted their tendencies in summary generation.
- Provided annotations on the outputs generated by these LLMs for insights and model evaluation.