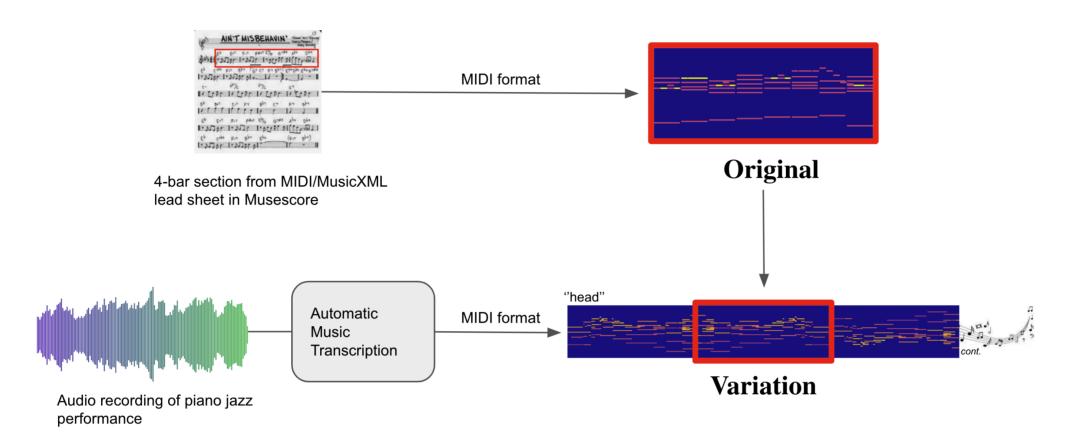# Music Overpainting: A Generative Music Model and AI Music Composition Tool for Creating Musical Variation

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4-bar section from MIDI/MusicXML lead sheet in Musescore

Original

Audio recording of piano jazz performance

Automatic Music Transcription

MIDI format

Variation

Finding

A key finding was that many generative music tasks were not relatable tasks in music composition. I defined a new task, Music Overpainting, which was based on a composer creating variation upon an existing musical idea. I also created a dataset for this, and found that transformer models were better at generalising to the data than more simple models.

Question

I will be focusing on creating a larger dataset for the task, and training various models using this data. I will also be exploring the use of transfer learning my dataset to models I've trained on larger more well-known datasets to see if this will improve generated outputs.

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