

Richhiey Thomas

Email: richhiey1996@gmail.com

<https://richhiey1996.github.io/>
<https://linkedin.com/in/richhiey>

Mobile: +4917627808684

Location: Magdeburg, Germany

EDUCATION

- **Otto-von-Guericke-Universität, Magdeburg - Fakultät für Informatik**
Master of Science in Data and Knowledge Engineering *Oct 2018 - Present*
 - **University of Mumbai - College of Engineering**
Bachelor of Engineering in Computer Engineering *Jun 2013 - Jun 2017*
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EXPERIENCE

- **OVGU AILab** *Magdeburg, Germany*
Research Assistant *Mar 2019 - Present*
At the lab, I apply deep learning in creative ways to solve musical challenges, with a focus on generative models for symbolic music and audio. I also try experimenting with interfaces for human-AI collaboration in the music making process.
 - **Mirraw Online Services Pvt. Ltd** *Mumbai, India*
Software Developer *Jul 2017 - Aug 2018*
Worked as a full-stack Ruby on Rails developer to build UI/UX features for the Mirraw Shopping Store. It was a small development team and we were also tightly involved with marketing and product design teams within the company.
 - **Google Summer of Code** *Virtual*
Student Internship *Apr 2016 - Sept 2016*
Worked as a student developer within the OSS community to complete a project with Xapian, an open source search engine library.
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SELECTED PROJECTS

- **Irish Folk Music Generation System** *Jul 2020 - Sept 2020*
Built a deep learning system powered by an LSTM trained on Irish tunes from thesession.org to generate 10000 Irish Double Jigs for the AI Music Challenge 2020.
- **Music Maker - Experiments with Google Magenta models** *Jan 2020 - May 2020*
Experimented with creating interesting interfaces for music creation with deep learning models. This project was used to create a song for the AI Song Contest 2020.
- **ISMIR Paper Explorer ++** *May 2019 - Dec 2019*
Restructured backend of previous version for running deep learning experiments. Experimented with document understanding tasks using Doc2Vec. Created wiki and documentation for the project. This project was completed as a team project under Prof. Sebastian Stober at OVGU.

- **Clustering of Search Results**

Apr 2016 - Jul 2017

Developed an API to cluster text documents and implemented the K-Means algorithm within the Xapian Search Engine Library.

TECHNICAL SKILLS

Python, Tensorflow, Django, Software Engineering, Ableton Live

SELECT COURSEWORK

Introduction to Deep Learning, Learning Generative Models

OTHER RELEVANT INTERESTS

Making music, playing Piano, MIR community
