

Mechanical Roadmap v1.0

Chris Fisher

<https://github.com/christopher-fisher/mechanical>

September 30 2020

1 What is Mechanical?

Mechanical is a toolkit for the rapid prototyping of common types of generative machine learning projects. It is not intended to replace the full TensorFlow library, but rather to serve as a more approachable entry point to the sorts of projects that are possible with TensorFlow.

2 Goals

- Make machine learning projects more approachable
- Create a simple yet highly configurable tool for rapid prototyping of machine learning projects
- Learn more about TensorFlow in the process of building the Mechanical toolkit

2.1 Long Term Goals

- Eventually implement a web front end using Flask and React in order to better learn those frameworks

3 Development Milestones

3.1 v0.1: Text Generation

Projected release: October 10 2020

- Implement and adapt the text generation model I implemented in my project Pynk Floyd
- All functionality and model parameters adjusted via `textgen.config.py`
- Currently the toolkit is utilized by importing it into a separate script file. This will be a temporary measure until a CLI is implemented for v0.2

3.2 v0.2: Command Line Interface

Projected release: TBD following release of v0.1

- Implement command line interface for toolkit
- Allow for user-provided custom configuration files

3.3 More features TBD