

Machine Learning Code Generator

The Problem:

Machine Learning is a kind of Artificial Intelligence that is used to classify and predict unknown data. It is a powerful and versatile tool, but most people cannot write Machine Learning code. Therefore the majority of people cannot take advantage of Machine Learning.

Impact:

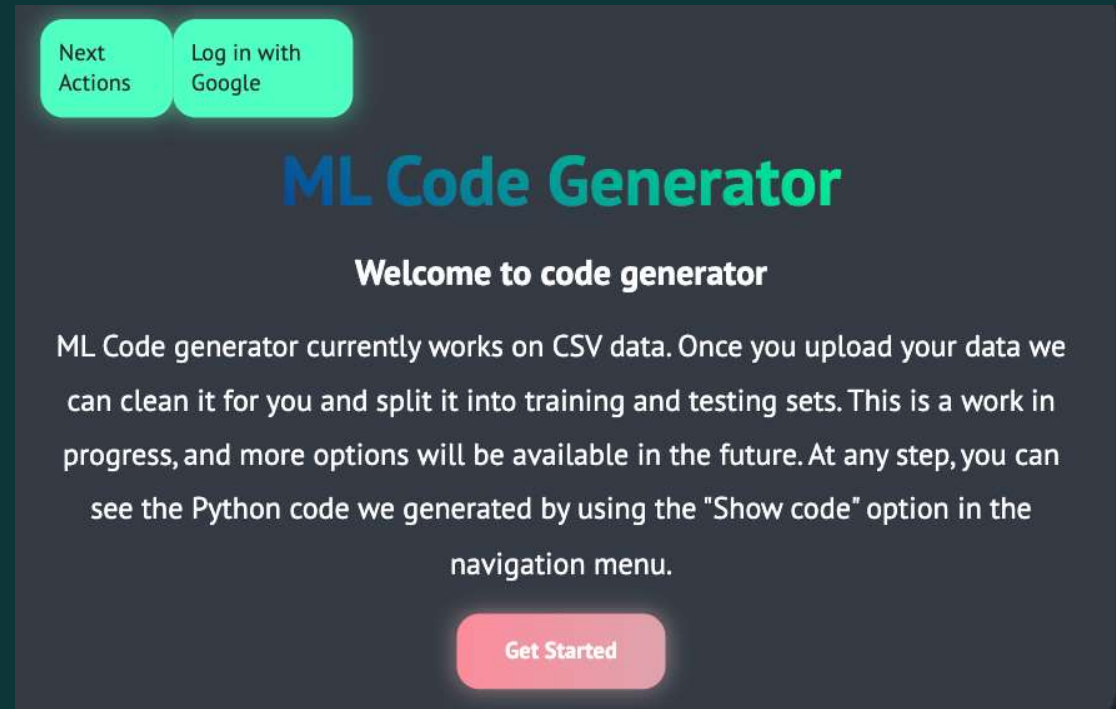
- Help people from a broad range of disciplines to make new discoveries using their own data
- Increase access to Machine Learning technologies

GitHub link

https://github.com/kate-holdener/ml_code_generator

Client:

Possible clients include businesses without experienced programmers or data scientists, other educators, and researchers who want to analyze and identify trends in data. Or gain experience with Machine Learning



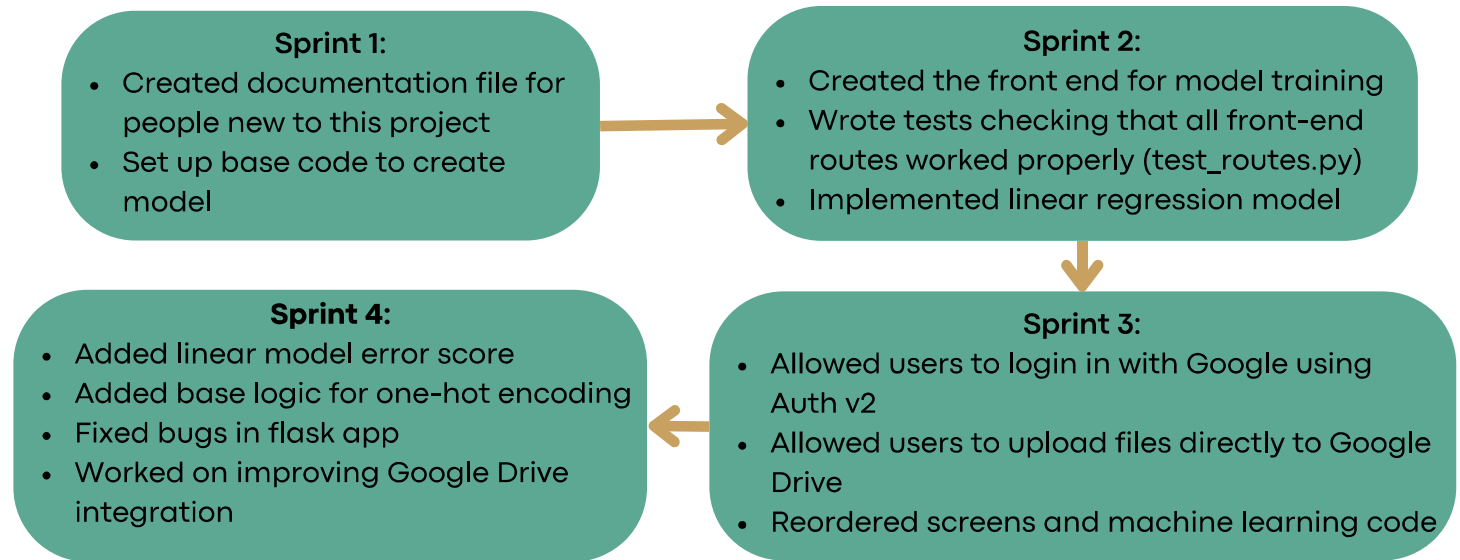
Developers:

Tyler McMahon
tyler.mcmahon@slu.edu
Kaitlyn Ashabranner
kaitlyn.ashabranner@slu.edu

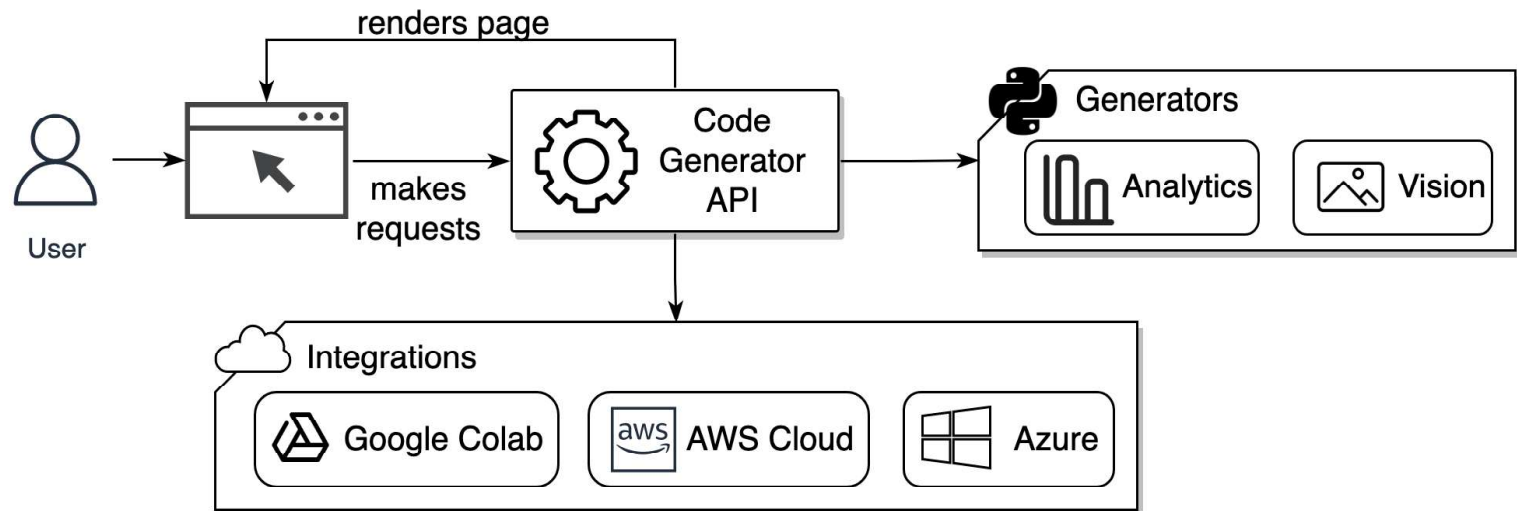
John Coffman
john.coffman@slu.edu
Boran Li
boran.li@slu.edu

Sprints:

In the future we plan to add a larger variety of models to choose from and further improve the application's integration with Google Colab



Architecture:



Code Generator API is used to generate the application that is visible to the user and is created using Flask. It also gets input from the user.

Code Generator API connects to the Generators which are written in Python and are responsible for generating code based on the user's selections

Code Generator API links to Integrations which allows different services to interact with the app. We are in the process of integrating with Google Colab, but hope to also connect to AWS and Azure.