

Sprint 1 Requirements Artifacts

Team 13

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1. Choose Model

Option 1: Search for open source models online

Option 2: Create model from scratch

- Find/make reputable model
 - Able to take in images
 - Able to take in text
 - Outputs text
 - Able to be formatted ideally
 - Free/open source
 - Can run on limited hardware(project may be standalone app)

2. Find image dataset to train model on

Get captioned images to train model on

- Images with alt text
- Decent size (1000+ per category)
 - Need a lot of variety
- Legal to use

3. Find text dataset to train model on

Text that describes images, to help with alt text generation

- Text you would see on a website
- Need text that does and does not talk about images
- Large sample (2000+)
- Legal to use

4. Train model on dataset

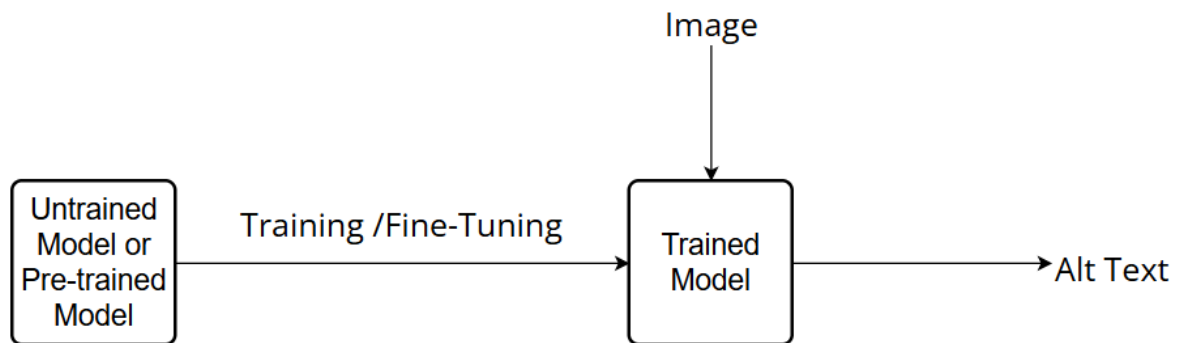
Option 1:

- Use Hugging Face to find a pre-trained model that fits our needs
- Perform fine-tuning on the model to more accurately execute the desired task

Option 2:

- Build a model and train it from scratch

Option 1 requires less oversight but also gives us less control. Option 2 may be more difficult but would allow us full control over the model.



5. Design output data format

- Computer readable (easy to process)
- Contains all relevant information
 - Proposed alt text
 - Resources used to generate alt text(what images and text was used, helpful for debugging/user can opt out of certain words or images being used)
 - Confidence value(optional)
- Exists in permanent file(optional)
 - define format extension