**Release Plan**

My Machine Learning

Release 1.0 - ML Visualization in Android

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High Level Goals

* Have a working Android app that is capable of walking the user through the training and application of a machine learning model in a visual way.
  + Setup an android app with Firebase authentication
  + Setup an android app with a cloud database
  + Create ML models that can be adapted to android
  + Design an Android app with simple and intuitive navigation between activities
  + Design functions that display the training and application of the user’s models in clear and meaningful ways, and implement them into the app.
  + Implement the functions into the app
  + Test the app
  + Have a working prototype

Sprint 1 (App and ML Setup) - 16 story points

User Stories

* (4 points) As an ML learner, I need to be able to log in to the app so that I can save my information across devices
  + App setup and authentication
* (4 points) As an ML learner, I need to be able to use my own data in the app so that I can relate to the process more
  + Database setup and connection to app
* (8 points) As an ML learner, I need to be able to train an ML model so that I can learn from the results
  + Adaptable ML Model development

Sprint 2 (ML implementation and Basic Visualization) - 17 story points

User Stories

* (4 points) As an ML learner, I need to be able to access the model from within the app so that I can directly interact with it
  + Connect ML model to app
* (8 points) As an ML learner, I need to be able to visualize the training process so that I can understand how the models ‘learn’
  + Graphic development for training
* (4 points) As an uninformed user, I need the basic app functionality to be accessible and not intimidating so that I don’t lose interest
  + UI development
* (1 points) As an ML learner, I need to be able to see where my model falls short
  + Explanation of model performance

Sprint 3 (Visualization, UI and Testing) - 14 story points

User Stories

* (4 points) As an ML learner, I need to be able to visualize the performance of my model
  + Graphic visualization of model including accuracy
* (2 points) As an ML learner, I would like to be able to see how my model could be improved
  + Real-time change of visualization
* (8 points) As a user, I need the app to be stable, so that I don’t get frustrated into not using it
  + Prototyping and testing

Product Backlog

1. Generating the data with only user data would be impossible due to lack of size the size and privacy issues.
2. Having the first training model with images would be difficult since there are a lot of data to process, so use text based models instead.

Storylines

1. A lawyer who works with software companies deal with lots of issues in AI, but he/she never studied in what AI really is. He/She doesn’t really need to be good at practical AI coding because she’s a lawyer, not a developer. However, he/she needs to understand what the client is saying, so he/she should know a lot in theory. To get a theoretical idea of what an ML process is, how it runs and what’s important in a short period of time, he/she wants an app that could give a brief tutorial about ML.
   1. As a lawyer that works on cases that involve AI for software companies, I want an app that quickly demonstrates how machine learning works in a visual manner, so that I can understand it better in my cases.
2. A game art designer wants to know what part of illustrations the user’s are actually interested in. He/she wants to analyze the aspects of frequently preferred artworks and try out ML to serve that job. To do this, He/she wants to make his/her own ML model easily and apply it to the real case.
   1. As a game art designer, I want to learn how to leverage ML to analyze my artwork in order to discover what is most appealing to my clients. I want to make my own model that fit in my situation well easily.
3. A computer science student made his/her own model and explain its work and results to his/her family. But his/her family is not familiar with the ML, so it is really hard to explain to them. Therefore he/she wants to visualize his/her work with understandable design.