**Milestones**

* Discovery: Search for relevant published papers in the field of testing ML Systems
* Project Planning: Define a research goal to investigate. Iteratively narrow down scope based on relevant published papers
* Design Experiment: Define a test hypothesis. Identify distortion methodologies, models and dataset to use. Decide on a consistent training and testing set up.
* Set up experiment: Code a training and testing set up to train and test selected models
* Run experiment: Run experiment set up and compile results
* Further Investigation: Based on Results go back to designing another experiment
* Write Paper: Write conclusions based on observations from experiment results.

**Timeline**

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| Tasks | Start Date | Completion Date | Effort |
| Research Image Distortion Papers | September 2020 | September 2020 | Prudhviraj: 100% |
| For each paper, find a implementation | September 2020 | October 2020 | Prudhviraj: 100% |
| Research potential image classification datasets to train and test models | October 2020 | October 2020 | Prudhviraj: 100% |
| Research image classification models according to FLOPS, popularity and availability in mainstream libraries | October 2020 | October 2020 | Prudhviraj: 100% |
| Research a training method to train image classification models | October 2020 | November 2020 | Prudhviraj: 100% |
| Split image dataset into train, validation and test | November 2020 | November 2020 | Prudhviraj: 100% |
| Train models with default hyperparameters mentioned in respective papers over train and validation image datasets | November 2020 | December 2020 | Prudhviraj: 100% |
| Augment test datasets with image distortion algorithms | December 2020 | December 2020 | Prudhviraj: 100% |
| Organize accuracies in table and graphs | December 2020 | January 2021 | Prudhviraj: 100% |
| Cluster image distortions based on changes in accuracies of models | January 2021 | January 2021 | Prudhviraj: 100% |
| Analyze l2 distance between embeddings generated from undistorted test images and distorted test images | January 2021 | February 2021 | Prudhviraj: 100% |
| Document results to decide next steps | February 2021 | February 2021 | Prudhviraj: 100% |

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| Milestones | Start Date | Completion Date | Effort |
| Discovery | August 2020 | August 2020 | Prudhviraj: 100% |
| Project Planning | August 2020 | September 2020 | Prudhviraj: 100% |
| Design Experiment | September 2020 | October 2020 | Prudhviraj: 100% |
| Set up experiment | October 2020 | November 2020 | Prudhviraj: 100% |
| Run experiment | November 2020 | December 2020 | Prudhviraj: 100% |
| Further Investigation | December 2020 | February 2020 | Prudhviraj: 100% |
| Write Paper | February 2020 | March 2020 | Prudhviraj: 100% |