

To,

IITD-AIA Foundation of Smart Manufacturing

Subject: **Weekly Progress Report for Week 7**

Dear Sir,

Based on my understanding and the topics covered, I have prepared the following progress report that addresses the relevant objectives of the project.

What happened last week – Week 6:

- Experiment with various hyperparameters
- Explored about Lazy Predict tool
- Implementation of YOLO Algorithm
- Object detection and its associated algorithms
- Annotated images using labeling tool
- Learned about Neural Style Transfer
- Object detection with Faster R-CNN

What's happening this -week 7:

- Machine learning classification Methods
- Created a custom classifier and trained it
- Machine Learning Model Deployment With Flask
- Improve the model's accuracy
- Object detection and abject detection algorithms

Weekly Progress:

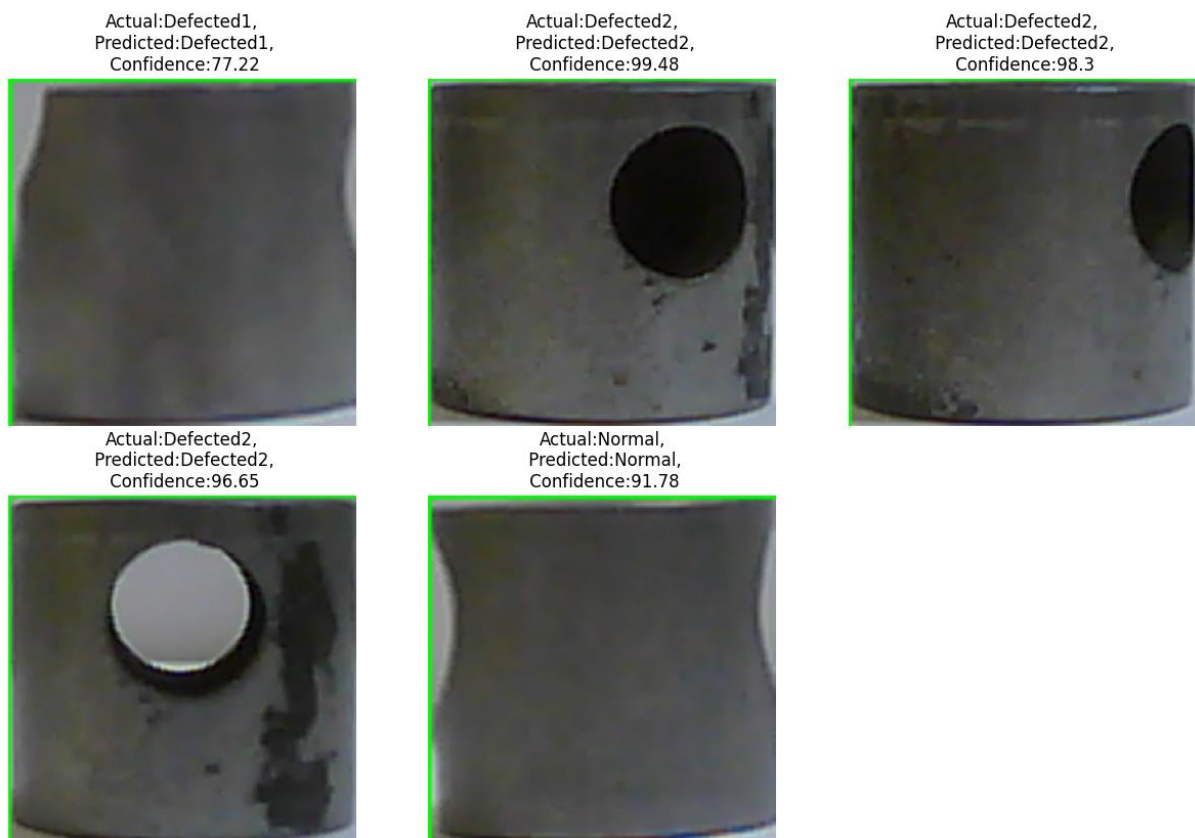
July 17:(Monday)

Learned about the different Machine learning classification Methods commonly used for Computer vision, including k nearest neighbours, Logistic regression, SoftMax Regression and Support Vector Machines.

July 18:(Tuesday)

Created a custom classifier and trained it and test it on the images.

Continued working on the project. Created a custom classifier and trained it and test it on the images.



July 19:(Wednesday)

Continuing with the model deployment part. Leaned about Deployment of Machine Learning Model Deployment With Flask .

July 20:(Thursday)

Today I have just learned more about model deployment.

Deployment Machine Learning Model With Flask.

July 21:(Friday)

Learned more about machine learning algorithms. Started the deployment of the model.

July 22:(Saturday)

Learned about how improve the model's accuracy. Due to ongoing exams, I have not been able to implement anything .

July 23:(Sunday)

I have learned more about object detection and abject detection algorithms.

Due to my ongoing exams, I haven't had the chance to implement anything at the moment.

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