

To,

IITD-AIA Foundation of Smart Manufacturing

Subject: **Weekly Progress Report for Week 5**

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.

WEEK-5

Date: 03 July 2023

Learnings

I learned more about tensorflow framework for deep learning.

Work Done / Learning Implementation

Today, my primary focus was on learning TensorFlow, and in the coming days, this knowledge will greatly help me in building deep learning model.

Date: 04 July 2023

Learnings

Also I have revisited and refreshed my understanding of important concepts in deep learning.

Learned about different type of neural network like ResNet,AlexNet,MobileNet.

Work Done / Learning Implementation:

Tried to run prediction on a sample image.

Date: 05 July 2023

Learnings

I have gained knowledge on conducting Exploratory Data Analysis (EDA). Learned more about Predictive Maintenance.

Work Done / Learning Implementation

Today I received the dataset and explored more about the dataset.

Date: 06 July 2023

Learnings

Learned about the Random Forest algorithm and gained knowledge of its implementation.

Work Done / Learning Implementation

Imported the data files and started the cleaning process.

Date: 07 July 2023

Learnings

Continued my study on Random Forest algorithm.

Work Done / Learning Implementation

I have started the preprocessing of the given dataset and done some feature extraction on the given bearing dataset.

Date: 08 July 2023

Work Done / Learning Implementation

Done with the preprocessing of the dataset and trying to perform Explanatory Data Analysis(EDA) on the given dataset.

Date: 09 July 2023

Work Done / Learning Implementation

Started the implementation of Random Forest Algorithm and done with preprocessing and cleaning of dataset and imported it to check the content present inside the given dataset.

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2	Tensorflow		<div></div>							
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4	Explorato				<div></div>					
5	Random Fo					<div></div>				
6	Preprocess						<div></div>			
7	Done with t							<div></div>		
8	Implementa								<div></div>	