

**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.**

**Date: 17 July 2023**

**Learnings:**

Experiment with various hyperparameters and architectures to optimize accuracy.

**Work Done / Learning Implementation:**

Implement techniques like transfer learning by fine-tuning pre-trained models (VGG, ResNet) to get their learned features and improve the model's accuracy.

**Date: 18 July 2023**

**Learnings:**

Tomorrow I have Sem exam. So I haven't implemented anything today.

**Work Done / Learning Implementation:**

Implement techniques like transfer learning by fine-tuning on pre-trained models .

**Date: 19 July 2023**

**Learnings:**

Learned about Machine learning Algorithm and Practiced it

**Date: 20 July 2023**

**Learnings:**

Explored about implementation of Random Forest Algorithm on the dataset

**Date: 21 July 2023**

**Learnings:**

Today I have learned about Semantic segmentation. And explored about U-Net architecture.

**Date: 21 July 2023**

**Learnings:**

Learned About the different Machine learning classification methods.

**Date: 23 July 2023**

**Learnings:**

Facing some problems or errors on given dataset so I am trying to fix it and trying to make the dataset clear.

