

TO,
IITD-AIA Foundation of Smart Manufacturing

Subject: Weekly Progress Report for Week 5

Dear Sir,

During this week, I made progress in various areas of my internship. focused on various aspects of my internship related to cloud computing. Here's a day-wise summary of my activities:

July 10:

- Explored cloud computing and gained knowledge about its architecture and characteristics.
- Focused on understanding the fundamental concepts of cloud computing.
- Engaged in learning about the essential features of cloud computing.

July 11:

- Continued exploring cloud computing and its features.
- Learned about different deployment modes in cloud computing, including private, public, and hybrid.
- Explored the characteristics and use cases of each deployment mode.

July 12:

- Learned about the Streamlit library, which is used for building web applications in Python.
- Explored the functionalities and features of Streamlit.
- Gained knowledge about deploying Streamlit applications on Heroku.

July 13:

- Focused on understanding the code implementation of the Streamlit library for cloud computing.
- Explored the code for deploying Streamlit applications on Heroku.
- Engaged in studying and analyzing the code for effective deployment.

July 14:

- Explored techniques to improve the model's performance.
- Learned about cross-validation techniques, with a specific focus on k-fold cross-validation.
- Gained knowledge about the importance and implementation of k-fold cross-validation.

July 15:

- Performed k-fold cross-validation on the model to improve its performance.
- Engaged in implementing the k-fold cross-validation technique on the model.
- Analyzed the results obtained from k-fold cross-validation.

July 16:

- Continued learning and exploration of cloud computing.
- Focused on gaining deeper understanding of the Streamlit library.
- Explored the features and functionalities of Streamlit, an open-source app framework for Python.

Throughout the week, I actively engaged in learning about cloud computing, including its architecture, characteristics, and features. I also focused on utilizing the Streamlit library for building web applications and explored deployment techniques on platforms like Heroku. Additionally, I delved into cross-validation techniques, particularly k-fold cross-validation, for model improvement.

There were no significant issues or closures during the week. Progress was made as per the track, with tasks completed successfully. It was a week of continuous learning and exploration in the field of cloud computing and model improvement techniques.