Weekly Progress Report

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Domain: **DATA SCIENCE AND MACHINE LEARNING**

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Week Ending: 02

I. Overview:

This week, the primary focus was on understanding USC_TIA and contributing to Python projects. Additionally, efforts were made to leverage learning resources for skill enhancement.

II. Achievements:

1. USC_TIA Familiarization:
   - Explored USC_TIA documentation to grasp core functionalities.
   - Successfully executed basic tasks, showcasing initial proficiency.

2. Python Project Contributions:

Name of the project:-

Prediction of Agricultural Crop Production in India

- Contributed code to **Prediction of Agricultural Crop Production in India** with a focus on **Model Training of the various datasets of agricultural produce,crops during a season etc**
- Engaged in effective collaboration with team members.

3.Learning Python:

- Acquired proficiency in essential Python libraries, such as **Scikit learn and Matplotlib**
- Applied Python skills to real-world problems within USC_TIA context.

III. Challenges:

1. USC_TIA Integration:

- Encountered challenges during USC_TIA integration with **Visual Studio Code**
- Ongoing efforts to troubleshoot and ensure successful integration.

2. Python Project Complexity:

- Faced complexity in understanding **the data which is relevant to the training of the model and to an attempt to reproduce a data in cleaned format for better accuracy score of the model prediction** of the Python project.
- Seeking guidance to overcome challenges and enhance understanding.

IV. Learning Resources:

1. USC_TIA Documentation:

- Utilized USC_TIA official documentation for reference and troubleshooting.
- Attended relevant webinars and online tutorials to deepen understanding.

2. Python Learning Resources:

- Engaged with **UpSkill for datasets and AI models such as Claude Anthropic to debug certain complex areas**.

V. Next Week's Goals:

1. USC_TIA Enhancement:

- Address integration challenges and explore advanced USC_TIA features.
- Collaborate with peers to contribute to USC_TIA improvement discussions.

2.Python Project Development:

- Tackle more complex tasks within the Python project to increase contribution.
- Seek feedback from mentors and peers for continuous improvement.

- **Deep dive into another ML project**

VI. Additional Comments:

- Training the model has made me understand more of the core section of machine learning about how do we come across many ml models which provide a range of accuracies based on the same dataset