Summary Report of Work Completed on Day 5

I worked on implementing Optical Character Recognition (OCR) to convert tables from images into CSV files. The project involved the following steps:

1. **Initial Implementation:** I started by applying standard OCR techniques to extract text from images, focusing on converting table data into a structured CSV format.
2. **Challenges Encountered:** During the process, I faced several challenges, particularly with images containing complex or handmade tables. These tables often presented issues like misalignment, inconsistent formatting, and the presence of non-standard characters, which made accurate conversion difficult.
3. **Research and Study:** To overcome these challenges, I studied advanced OCR techniques, including pre-processing methods to improve image quality, algorithms to better detect table structures, and post-processing strategies to refine the extracted data.
4. **Solution Exploration:** I explored solutions such as training OCR models to recognize custom handwriting and complex table layouts more effectively. Additionally, I investigated the use of deep learning-based models for more accurate text and table structure recognition.
5. **Future Plans:** With the knowledge gained, I plan to implement more sophisticated techniques to handle these issues and improve the OCR system's ability to process complex or handmade tables efficiently.