Jaypee University of Engineering & Technology, Guna (MP)
Department of Computer Science & Engineering

Week Number-　　4	Date	From - 21/08/23	To - 26/09/23
Task Assigned By Supervisor- Learn how Optical Character Recognition (OCR) works, how this will help in your project.			
Supervisor's Signature (while Assigning task)			
Date of task allocation-	**21/08/2023**		

Brief report on achievement by student-

OCR is a technique that transforms printed or handwritten text into a format that computers can read. It is essential for scanning text from physical documents so that it may be saved, searched for, and edited electronically. There are numerous crucial steps in the OCR process:

Initially, the text-containing image is recorded using scanning, photography, or some other technique. Preprocessing can be used to improve the quality of the image by eliminating artifacts and decreasing noise.

The location of text within the image is then determined by text detection algorithms. OCR software transforms the text into machine-readable characters after text regions have been defined. By comparing the forms and essential traits of each character to well-known characters, this can be accomplished using pattern recognition or feature extraction.

After detection, post-processing techniques like spell- and grammar-checking can be used to improve accuracy and correct mistakes.The output of the OCR program is a digital text document, usually in plain text or in a formatted form.

OCR technology has advanced tremendously thanks to developments in computer vision and machine learning. OCR systems of today are adaptable and can handle a wide range of typefaces, languages, and handwriting types. They are useful in document management, automated data entry, accessibility, and many other areas, enabling effective text digitization from a variety of sources.

Report of Supervisor-	Satisfactory/ Not Satisfactory/................	
Remarks / Instructions: 		
Supervisor's Sign. (1st meeting of week)	Date	**21/08/2023**
Supervisor's Sign.(2nd meeting of week)	Date	**24/08/2023**