PROJECT INFORMATION FORM

1.Team No: 2

2.Project Title: : LSTM based OCR

3.Team Details:

	S.No.	Student I'd	Student Name
	1	20EG105112	G V CHARAN
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4.Problem Statement:

Optical Character Recognition (OCR) serves as a fundamental technology for converting printed or handwritten text into machine-readable data. Traditional OCR methods often face challenges in accurately recognizing characters within diverse and complex textual environments. The limitations of existing approaches become evident in scenarios involving variable fonts, handwriting styles, and linguistic intricacies. The objective of this project is to address these challenges by leveraging the capabilities of Long Short-Term Memory (LSTM) networks in the context of OCR.

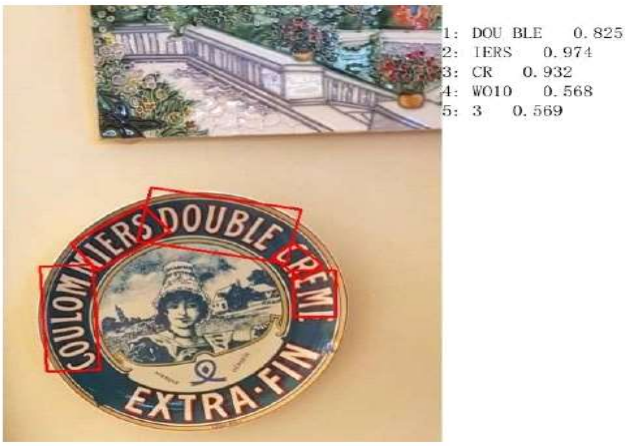
5.Source of Project (References):

"Implicit Language Model in LSTM for OCR", by Ekraam Sabir,Stephen Rawls and Prem Natarajan published in 2023, Information Sciences Institute, University of Southern California, Marina Del Rey, California 90007.

6.FinalOutcome:

The final outcomes of the project are:

- Detecting and recognizing the text from an image:



7.What are parameters consider for project evaluation

- Precision and Recall: Assess the precision (true positives / (true positives + false positives)) and recall (true positives / (true positives + false negatives)) of the model to understand its ability to minimize false positives and false negatives.
- F-score: The harmonic mean of a system's precision and recall values.

8.Development Environment:

Python,Window

Signature Team Members: **Signature of Supervisor:**

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