

School Of Computer Science University Of Petroleum and Energy Studies P.O. Bidholi, Via-Prem Nagar DEHRADUN-248007

Issue Date: 15 Sep 2022

Bachelors of Technolgy in Computer Science & Engineering

Minor Major V

Project Title

Handwriting Character Recognition

Mentor Name

Dr. Virender Kadyan

S.No	Rollnumber	Branch	Name	Role	Signature		
1	500075183	AI & ML	Piyush Malviya	Documentation & Coding	Piyush Malviya		
2	500076400	AI & ML	Mudit Dagar	Documentation & Coding	Mudit Dagar		
3	500076579	AI & ML	Prateek Sehrawat	Documentation & Coding			
4	500075154	AI & ML	Rahul Dhanola	Documentation & Coding			
	Pro	ject Mentor	Head Of Department				

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Bachelors of Technolgy in Computer Science Engineering Minor Major **Project Title Mentor Name** Dr. Virender Kadyan **Handwriting Character Recognition** Handwriting Character Recognition is the mechanical or electronic conversion of scanned or photographed Abstract of typewritten or printed text into machine-encoded or computer-readable text. It is widely used as a form of data entry from some sort of original paper data source, whether passport documents, invoices, bank statement, receipts. business card, mail, or any number of printed records. The project tries to create software for recognition of a handwritten text from handwritten text images. It uses computer vision and machine learning. And it experiments with different approaches to the problem. Objective To develop a Handwriting Character Recognition system using the Convolutional Recurrent Neural Networks (CRNN) and its accuracy will be tested using Machine Learning metrics. Therefore, the following objectives need to be achieved to satisfy the development of the project. To study Convolutional Recurrent Neural Network (CRNN) algorithm and develop a system that is able to recognize characters Methodology To detect, extract and recognize characters using Convolutional Recurrent Neural Network (CRNN). To reduce noise from handwritten documents. Progress 1 10 10 Marks 10 10 10 10 10 Rollno/Mar Step Step Step Syno Mid-End-Mentor Step 1 Step 3 Step 4 Step 5 ks(10) psis term Term Remark Date/Ment Signature Progress 2 Marks 10 10 10 10 10 10 10 10 10 10 Step Step Step Svno Mid-End-Rollno Step 1 Step 3 Step 4 Step 5 Mentor psis term Term

Guideline: 1) A project group can be of maximum 4 members and no alteration in the group member will be entertained later.

Guideline: 2) Methodology should have following steps Step1: Literature Review; Step2: Identification Of Requirement (Type Of Data source, Amount Of Data, & Format of Data); Step3: Identification of Algorithm; Step4: Comparative study; Step5: Design and Development of System/Architecture; Step 6: Implementation; Step7: Results Guideline:3) Student should upload softcopies of all the documents (reports and power point presentations) in "Project Directory", 24 hrs prior to evaluation.

Date/Ment or Signature

Guideline:4) Panel member will give feedback to individual on the scale of 1 to 5 and this scale will change for defaulter i.e. 1 to 3 scale.

1: Poor

2: Average

3: Good

4: Excellent

5: Outstanding