PDA College of Engineering

Department of Computer Science and Engineering

SYNOPSIS OF THE PROPOSED MINIPROJECT (22CSMP56)

ON

AskPDA-The Official AI Assistant of PDA College.

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Academic Year : 2025-26

Department Vision Mission Statement

Vision

To become a premier department in Computer education, research and to prepare highly competent IT professionals to serve industry and society at local and global levels.

Mission

- To impart high quality professional education to become a leader in Computer Science and Engineering.
- To achieve excellence in research for contributing to the development of the society.
- To inculcate professional and ethical behaviour to serve the industry

Title

AI-Based Answer Sheet Evaluation System

Introduction

Traditional exam evaluation is highly manual, slow, and often inconsistent. Evaluators may miss correct answers written in alternate approaches (due to time limitations etc), causing unfair marking.
The proposed **AI-Based Evaluation System** automates this process using **OCR** and **AI models** to read scanned student answer sheets, analyze answers, and assign marks based on logical correctness. It displays results through an intuitive UI where evaluators can view the original answer sheet with AI-assigned marks and make corrections if needed.
This system saves time, increases accuracy, and encourages students to think logically rather than memorize.

Problem Statement

Manual answer sheet evaluation is time-consuming, error-prone, and lacks consistency. Evaluators struggle to assess different writing styles and alternate correct solutions, leading to biased or inaccurate results. There is a need for an automated, intelligent system to ensure fair and efficient evaluation.

Objectives

- Automate evaluation of handwritten student answers using OCR and AI.
- Assess answers based on logical correctness and reference materials.
- Provide an editable UI overlaying marks on the scanned sheet.
- Reduce evaluator workload and time consumption.
- Notify evaluators if handwriting is unclear for manual review.

Implementation Tools

Platform: Web-based system (Windows/Linux, Flask/Django backend, React/Angular frontend)
Programming Language: Python (AI, OCR, backend), JavaScript (frontend)