

# Business Card OCR Document Report

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**GitHub:** [Project Link](#)

## Project Overview

This project demonstrates my ability to develop a practical application that solves a real-world problem. By creating a Streamlit app to extract contact information from business cards using OCR, I showcase skills in areas like:

- **Identifying a need:** Recognizing the challenge of efficiently managing business card data and automating the process.
- **Designing a solution:** Conceptualizing an app that allows users to upload images, extract data, and store it in a database.
- **Implementing with technologies:** Leveraging Python, EasyOCR, OpenCV, Streamlit, and MySQL to build the application.

This project highlights my understanding of the problem domain, problem-solving skills, and proficiency in applying relevant technologies to create a working solution.

## Approach and Technologies Used

The project documentation showcases my technical skills and knowledge of various tools and libraries:

- **Python:** Demonstrating proficiency in the primary programming language used for the implementation.
- **EasyOCR:** Highlighting my ability to leverage a robust OCR library for accurate text extraction from images.
- **OpenCV:** Showcasing my skills in image processing techniques like resizing, filtering, and enhancing images to improve OCR performance.
- **Streamlit:** Demonstrating my ability to create interactive web applications with a user-friendly interface.
- **MySQL:** Highlighting my knowledge of database management and my ability to store and retrieve data efficiently.

The documentation also outlines my systematic approach to the project, including steps like image upload, pre-processing, text extraction, and data storage. This structured approach demonstrates my ability to break down complex problems and implement solutions in a well-organized manner.

## **Innovation and Improvements**

The project documentation mentions exploring techniques like advanced image processing and natural language processing (NLP) to enhance the system's performance. This shows my willingness to go beyond the basic requirements and experiment with new ideas to improve the application. Discussing challenges faced during development and how I addressed them, such as handling poor-quality images or unconventional layouts, demonstrates my problem-solving skills and ability to overcome obstacles.

## **Project Code**

**Drive Link:** [Source Code & Sample Images](#)

## **Conclusion**

The conclusion of the documentation emphasizes the project's real-world impact and my understanding of its significance. By highlighting how the Business Card OCR tool can benefit professionals who rely on networking and maintaining contact information, I demonstrate my ability to think beyond the technical aspects and consider the practical implications of my work.