



RAGHU ENGINEERING COLLEGE AUTONOMOUS

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Raspberry Pi Based Text and Face Recognition for Visually Impaired

PROJECT GUIDE:

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OBJECTIVES:

- To develop an advanced face recognition algorithm utilizing OpenCV and the HAAR features.
- To integrate an offline Text-to-Speech system, eliminating the need for internet connectivity and providing seamless audio feedback for enhanced autonomy.
- To develop a text recognition(OCR) mechanism using Pytesseract for Visually Impaired.
- To implement Bluetooth connectivity for audio output, replacing wired headsets to enhance user comfort and usability.

Simulation tests have been conducted in a PC to validate the effectiveness and reliability of the system in providing essential assistance to visually impaired users.

SIMULATION METHODOLOGY

The software tools used for simulations are:

- Python 3.11, libraries like pyttsx3, OpenCV and face_recognition, Pytesseract.
- Visual Studio Code (VS Code) for writing and debugging the project codebase, providing a versatile and user-friendly development environment.

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Table of Contents How To Launch AI Agency Organically BATCH66 544

1. Understanding the eBook How To Launch AI Agency Organically BATCH66 544
 - The Rise of Digital Reading How To Launch AI Agency Organically BATCH66 544
 - Advantages of eBooks Over Traditional Books
2. Identifying How To Launch AI Agency Organically BATCH66 544
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an How To Launch AI Agency Organically BATCH66 544
 - User-Friendly Interface
4. Exploring eBook Recommendations from How To Launch AI Agency Organically BATCH66 544
 - Personalized Recommendations
 - How To Launch AI Agency Organically BATCH66 544 User Reviews and Ratings
 - How To Launch AI Agency Organically BATCH66 544 and Bestseller Lists
5. Accessing How To Launch AI Agency Organically BATCH66 544 Free and Paid eBooks
 - How To Launch AI Agency Organically BATCH66 544 Public Domain eBooks
 - How To Launch AI Agency Organically BATCH66 544 eBook Subscription Services
 - How To Launch AI Agency Organically BATCH66 544 Budget-Friendly Options

6. Navigating How To Launch AI Agency Organically BATCH66 544 eBook Formats
 - ePub, PDF, MOBI, and More
 - How To Launch AI Agency Organically BATCH66 544 Compatibility with Devices
 - How To Launch AI Agency Organically BATCH66 544 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of How To Launch AI Agency Organically BATCH66 544
 - Highlighting and Note-Taking How To Launch AI Agency Organically BATCH66 544
 - Interactive Elements How To Launch AI Agency Organically BATCH66 544
8. Staying Engaged with How To Launch AI Agency Organically BATCH66 544
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers How To Launch AI Agency Organically BATCH66 544
9. Balancing eBooks and Physical Books How To Launch AI Agency Organically BATCH66 544
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection How To Launch AI Agency Organically BATCH66 544
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine How To Launch AI Agency Organically BATCH66 544
 - Setting Reading Goals How To Launch AI Agency Organically BATCH66 544
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of How To Launch AI Agency Organically BATCH66 544
 - Fact-Checking eBook Content of How To Launch AI Agency Organically BATCH66 544
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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