







# 5-100%



(According to chatGPT)

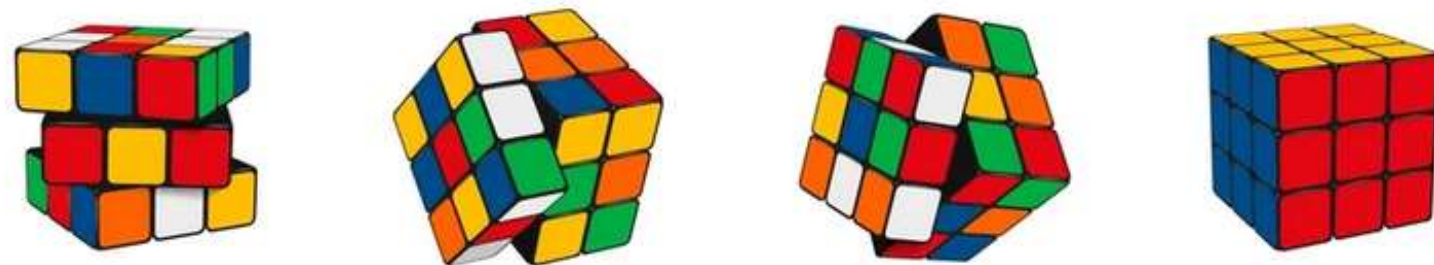
[cleancube.netlify.app/](https://cleancube.netlify.app/)





# CleanCube

By Idan Nave & Amit Shitrit



[cleancube.netlify.app](http://cleancube.netlify.app)



# INTRODUCTION

**1 DAY X 1 CUBE**

- **Enthusiasts of all levels.**
- **Tools, Guides, Videos, 3D Sim**
- **AI-Specific Solutions**
- **Cube-state recognition**
- **Shop**




# TARGET AUDIENCE

- **BEGINNERS WHO WANT TO LEARN HOW TO SOLVE A RUBIK'S CUBE.**
- **ADVANCED SOLVERS AIMING TO IMPROVE ALGORITHMS AND ACHIEVE FASTER SOLVE TIMES.**



# PROBLEMS



No adaptive interactive guides

Lack of on-demand feedback

A giant leap from beginner to advanced



# FEATURES & FUNCTIONALITY

## Core Functionalities

1. Embedded iframe of a 3D cube
2. Step-by-step instructions for solving the cube.
3. Specific algorithms for each difficulty.

## External API Integration

- AI Prompting- adaptive algorithms for all skill levels.
- Image Processing- high-quality response to the OpenAI API.



# DEVELOPMENT WORKFLOW

- Concept proofing
- Layout Phase
  1. Create Wireframes for desktop and mobile layouts.
  2. Create Dynamic elements.
- Logic Phase
  1. Build the HTML, CSS, and JavaScript structure.
  2. Build a Node server and deploy it in Render.
  3. Build an Image Processing Layer in Python.
  4. Build an API requests\response module for OpenAi.



# DEVELOPMENT WORKFLOW

- Testing Phase
  1. Cross-Screen Responsiveness
  2. Repeatability

- Hosting
  1. Server- Render.
  2. Deploy- Netlify.

## Tools

1. Code Editor: VS Code, pyCharm.
2. Version Control: Git/GitHub for code management.
3. Testing: DevTools for responsive & functionality testing.



# CHALLENGES

## 1. Imagery Handling:

- Color accuracy.

## 2. Seamless Integration:

- Lack of control over the 3D model (3rd party)



# CHALLENGES

## **3.AI Calibrating:**

**Fine-tuning AI models to generate high-quality algorithms for different levels of expertise.**

## **4.Local Storage:**

**Dumped efforts of JSON transport, but implemented locally.**



# CONCLUSIONS

**1. Server-side skills are crucial for working with any AI / Algo-related apps**

**2. AI Data must be validated-  
prompts must be clear & concise**

**3. Teamwork & Deadlines must be planned in advance,  
each member should participate in both front & back aspects.**



Qs?







Thank You