

# Rahul Raj

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*"Passionate Full-Stack Developer from India"*

## Personal Profile

A Bachelor's student at the Cambridge Institute of Technology, Bangalore, undertaking the Computer Science course. Zealous about software engineering and with 1+ years of experience specialising in machine learning, development, algorithms, and full-stack web development. Primarily, looking for Machine Learning / Data Engineer / Developer roles.

## Projects

### Live Digit Recognition

Personal Project

Apr 2021

- A machine learning project built with Keras, Flask and trained over MNIST dataset deployed on Heroku recognizes handwritten digits drawn live on a beautiful web interface
- **Live Demo:** <https://live-digit-recognizer.herokuapp.com/>
- **GitHub Link:** <https://github.com/dusklight00/live-digit-recognition>
- **Technical Skills:** Flask, Python, Javascript, Keras

### Hamiltonian Pathfinder

Personal Project

Sept 2021

- An implementation of dynamic programming built with Flask and JavaScript to find hamiltonian path of any type of grid over and interactive interface deployed on Heroku.
- **Live Demo:** <https://hamiltonian-path-finder.herokuapp.com/>
- **GitHub Link:** <https://github.com/dusklight00/hamiltonian-path-finder>
- **Technical Skills:** Flask, Python, Javascript

### Smart Video Cropper

Personal Project

Dec 2021

- A video segmentation pip package that implements smart video cropping using Canny Edge Detection Technique to create a heatmap of more and less important area of frame.
- **GitHub Link:** <https://github.com/dusklight00/smart-video-crop>
- **Technical Skills:** Python, OpenCV, VidGear

## Skills

**Programming** Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.), R(ggplot2), PHP, C/C++, HTML/CSS, JavaScript, SQL.

**Miscellaneous** Linux, Shell (Bash/Zsh),  $\text{\LaTeX}$ (Overleaf/R Markdown), Tableau, Microsoft Office, Firebase, Git.

**Soft Skills** Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

## Education

### Cambridge Institute of Technology

Bangalore, India

BE In Computer Science

Oct 2022 - Current

- Currently pursuing Bachelor's of Engineering in Computer Science and Engineering

## Achievements

2019 **Second Place**, Celesta Robowars, IIT Patna

India

2009 - 19 **Certificate of Excellence in Computer Science**, DPS Patna

India