

Indian Currency Notes Classifier For Blind People

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Shri Vishnu Engineering College for women

Presented By :

18B01A05F4 B.Hema Varshini

18B01A05H5 V.N.L.Ratna Deepika

18B01A05H6 V.Apurupa

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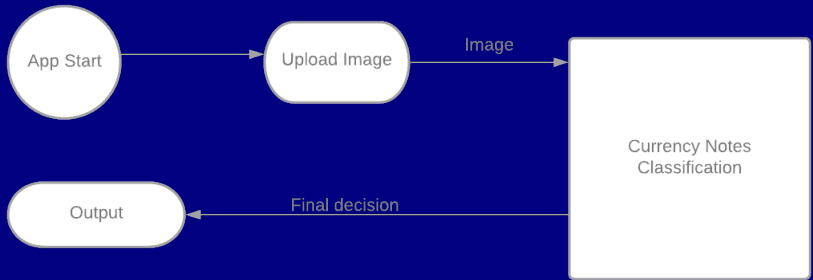
Introduction

- ▶ In the present situation, the reputation for currency denomination is becoming a vibrant topic.
- ▶ An important aspect of our normal life is money transactions. Particularly the visually impaired people ,suffer in cash exchanges . They may not now be ready to properly comprehend one-of-a-kind denominations and are often betrayed by distinct individuals.

Objective

- ▶ Our model is useful for recognizing and identifying the denomination of the currency depending on the trained currency images.
- ▶ We are using seven denominations of the Indian currency which are captured in all orientations for testing and training datasets

Approach



Steps for training the model

- ▶ Data Collection
- ▶ Building CNN model
- ▶ Training the model
- ▶ Evaluating the model
- ▶ Integrating with flask
- ▶ Deploying

Tech Stacks

- ▶ Python 3.8.5
- ▶ Tensorflow
- ▶ Keras
- ▶ Latex
- ▶ Flask

Problems faced

- ▶ Taking up a lot of processing power.
- ▶ Needing a large amount of data for training.
- ▶ Being difficult to interpret since deep learning is still a developing and rapidly changing field.

Learnings

- ▶ CNN algorithm
- ▶ CNN Layers
- ▶ Activation Functions
- ▶ Optimizers
- ▶ Latex
- ▶ Flask

References

- ▶ <https://iopscience.iop.org/article/10.1088/1757-899X/992/1/012016/pdf>
- ▶ <https://towardsdatascience.com/a-comprehensive-guide-to-convolutional-neural-networks-the-eli5-way-3bd2b1164a53>

Github Link

- ▶ <https://github.com/ratnadeepikavuddagiri/Indian-Currency-Classifer>

Thank you !