

Indian Currency Notes Classifier For Blind People

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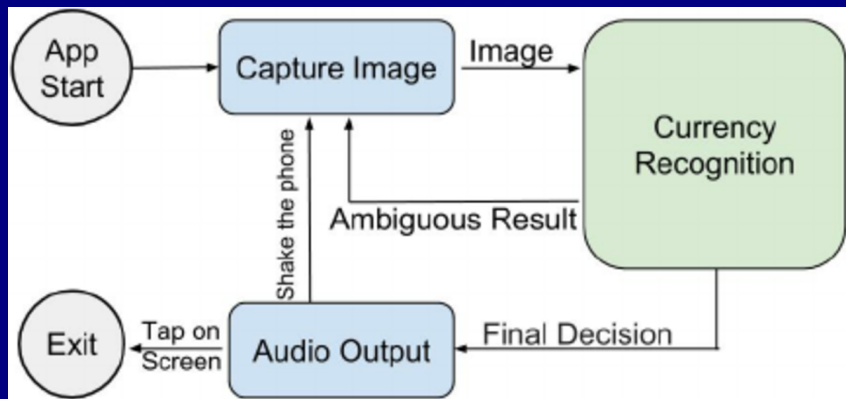
Introduction

- ▶ 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 six denominations of the Indian currency which are captured in all orientations for testing and training datasets

Approach



7 day plan

Day 1 - Importing Essential Libraries and collecting data from kaggle

Day 2 - Reading and Processing Data

Day 3 - Data Augmentation

Day 4 - Model building

Day 5 - Training the model using the dataset

Day 6 - Evaluating the model

Day 7 - Applying the model

Tech Stacks

- ▶ Python
- ▶ Tensorflow
- ▶ Keras
- ▶ Latex

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

References

- ▶ <https://iopscience.iop.org/article/10.1088/1757-899X/992/1/012016/pdf>

Thank you !