

SHOE CLASSIFICATION AND GENERATION

README FILE

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In this project a Classification system is built which classifies the Product based on the brand of its shoe among various brands such as Nike, Adidas, Converse. This project will accurately predict the brand of its shoe. A Shoe generation is also built which creates a new show with existing shoe images

Dataset used: Kaggle dataset downloaded and put in folder along with the jupyter notebook.

1. Classification of shoes using CNN Model(Using google Colab):

- Connect to google Drive
- Upload dataset to google drive
- Run the notebook

2. Classification of using CNN Transfer Learning(Using Kaggle):

- Connect to Kaggle
- Import dataset
- Run the notebook

3. Generation of New Shoe Design using DCGAN:

- Create a folder for dataset and upload all images
- Create a folder for new generated images
- Run the python file
- The new generated images will get stored in the generated images folder

4. Generation of New Shoe Designs using StyleGan2-ADA(using Google Colab):

- Connect to google Drive
- Upload dataset to google drive
- Install software(Clone NVIDIA github)
- Run the notebook