BVRIT HYDERABAD

College of Engineering for Women

GENDER AND AGE PREDICTION

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ABOUT THE PROJECT

"Gender and Age Prediction" is used to predict gender and age of a person from a picture.

APPROACH


1. Importing Libraries
2. Data Classification and Loading
3. Model Creation (For both Gender and Age)
4. Data Augmentation and Preparation (For both Gender and Age)
5. Train the Model (For both Gender And Age)
6. Training Result Visualization (For both Gender and Age)
7. Predicting the Gender and Age

APPLICATIONS

- **Identity Verification**
- **Item Recommendation**
- **Security and Video Surveillance**

TECHNICAL STACK

Languages:

- **Python**

Libraries:

- **Numpy**
- **Pandas**
- **Tensor Flow**
- **Keras**
- **Matplotlib**
- **Image Data Generator**

Tools:

- **Google Colab**

LEARNINGS

- **Way to approach a Machine Learning project.**
- **Learned how to build the CNN model.**
- **Different ways to improve the accuracy.**
- **Prediction of age and gender.**

CHALLENGES FACED

- **Understanding Documentation.**
- **Dataset Preparation.**
- **Model Building.**
- **Different ways to improve the accuracy.**

PROJECT LINKS

COLAB LINK:

https://colab.research.google.com/drive/1AoRTuZb7ycr7xkoh5gPz2UWANsmRlnq?usp = sharing

GIT LINK:

https://github.com/TetaliVarshitha/MLPROJECT/blob/main/MLGenderAndAge.ipynb

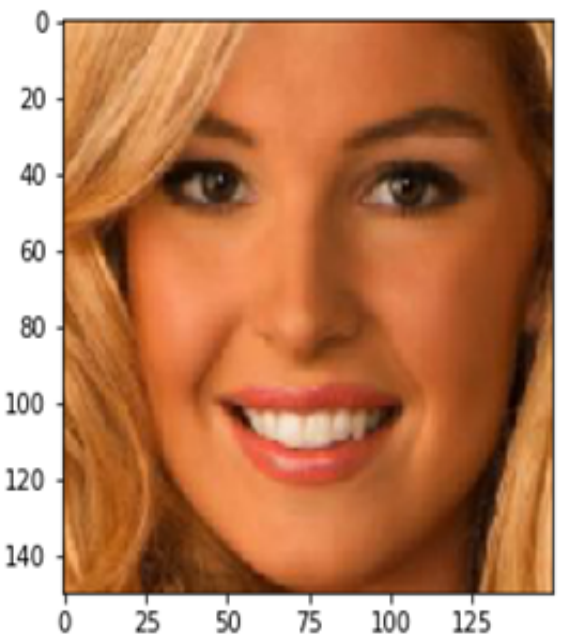
REFERENCES

https://towardsdatascience.com/facial-data-based-deep-learning-emotion-age-and-gender-prediction-47f2cc1edda7

https://www.kaggle.com/jangedoo/utkface-new

SAMPLE OUTPUT

Predicted Age:1-10
Predicted Gender:Female



Predicted Age:11-25
Predicted Gender:Female

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