GENDER AND AGE PREDICTION

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DOMAIN :

Machine Learning

ABSTRACT :

- **"Gender and Age Prediction"** is used to predict the gender and age of a person from a picture where gender includes "Male" or "Female" and age includes age groups ranging between "1-10", "11-25", "26-45" and "45 above".

- We have used **"Convolutional Neural Networks(CNN)"** for building the model.

TOOLS AND TECHNOLOGY STACK :

Languages:
- Python 3.6

Libraries:
- Numpy
- Pandas
- Tensor Flow
- Keras
- Matplotlib

Tools:
- Google Colab
- LaTeX

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

DATASET AND REFERENCES :

IEEE PAPER :
https://ieeexplore.ieee.org/document/8567066

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

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

THANK YOU