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**Short Report**

**Week 1 Task k**

For the Week 1 task, I curated a labeled dataset for age and gender classification using the UTKFace dataset. A total of **558 images** were organized into six categories:

* child\_male (100)
* child\_female (100)
* adult\_male (98)
* adult\_female (100)
* aged\_male (80)
* aged\_female (80)

Each image was parsed and categorized based on the **age, and gender in its filename**. The defined **age ranges** were:

* **1–17** for children
* **18–60** for adults
* **61–100** for aged

The final dataset ensures proper labeling, consistent file naming, and directory structure for ease of access during model training.

To promote fairness and diversity, as images were sourced from the [UTKFace dataset](https://www.kaggle.com/datasets/jangedoo/utkface-new/data), which includes **five racial groups**: White, Black, Indian, Asian, and Others. To support deeper analysis and fairness, each category folder is further **divided into five subfolders based on race**:

* 0/ (White)
* 1/ (Black)
* 2/ (Indian)
* 3/ (Asian)
* 4/ (Others)

Each subfolder contains an equal number of images *(where available)*, selected to ensure diversity not only in ethnicity but also in age distribution within the group. The dataset was created using a custom Python script that automated filtering, renaming, and organization. *Images that did not meet clarity, or age criteria were excluded.*

The directories are organized as follows:

age\_gender\_dataset/

├── child\_male/

├── 0/ (→ 20 images White)

├── 1/ (→ 20 images Black)

├── 2/ (→ 20 images Indian)

├── 3/ (→ 20 images Asian)

└── 4/ (→ 20 images Others)

├── child\_female/

├── 0/ (→ 20 images White)

├── 1/ (→ 20 images Black)

├── 2/ (→ 20 images Indian)

├── 3/ (→ 20 images Asian)

└── 4/ (→ 20 images Others)

├── adult\_male/

├── 0/ (→ 20 images White)

├── 1/ (→ 20 images Black)

├── 2/ (→ 20 images Indian)

├── 3/ (→ 20 images Asian)

└── 4/ (→ 20 images Others)

├── adult\_female/

├── 0/ (→ 20 images White)

├── 1/ (→ 20 images Black)

├── 2/ (→ 20 images Indian)

├── 3/ (→ 20 images Asian)

└── 4/ (→ 20 images Others)

├── aged\_male/

├── 0/ (→ 20 images White)

├── 1/ (→ 20 images Black)

├── 2/ (→ 20 images Indian)

├── 3/ (→ 20 images Asian)

└── 4/ (→ 20 images Others)

└── aged\_female/

├── 0/ (→ 20 images White)

├── 1/ (→ 20 images Black)

├── 2/ (→ 20 images Indian)

├── 3/ (→ 20 images Asian)

└── 4/ (→ 20 images Others)