**Height prediction of children**

**Project description**

**This project predicts the height of the children, from a given depth map images and pose key points dataset.**

**Prerequisites**

**To install dependencies, execute the following line of code**

**!pip install -r requirements.txt**

**Repository format:**

1. [**Predicting\_height\_of\_children**](https://drive.google.com/drive/folders/1J-v4Li4ajd4_G1hibGrjvb7Jm8HXPXmI?usp=share_link)
   1. [**DS\_Assignment 2**](https://drive.google.com/drive/folders/1-7VsADOBvfMR3lla-gRoqWpYarJdO2wu?usp=share_link)
      1. [**Depthmap**](https://drive.google.com/drive/folders/1-Eye_bo0o0f6LDRJj-NVvHhzany-AJtk?usp=share_link) **(folder containing all the depthmap images**
      2. [**Height\_pose.xlsx**](https://docs.google.com/spreadsheets/d/1729ruD1Sbvy0wcMl_gVWfRx1pzRdNirI/edit?usp=share_link&ouid=100509759725936208494&rtpof=true&sd=true)
      3. [**height\_of\_the\_children.ipynb**](https://colab.research.google.com/drive/11SHsaejhtdmAq3Ma2MnVnwvrWpOjNnw3?usp=share_link)
      4. [**Problem Dscription.txt**](https://drive.google.com/file/d/1-W5JgD3Mwlhu9E4spYyl9JiCkHEQHh0z/view?usp=share_link)
      5. [**README.txt**](https://docs.google.com/document/d/1XkHqgZV7scDKdRkbeY1nV1pVw8Q2kcydcmUgS-iw_zc/edit?usp=share_link)
      6. [**requirement.txt**](https://drive.google.com/file/d/1rHFafWPGy0vmBsWLm0BCEDXDC1aFHcao/view?usp=share_link)

**Running the script**

**Finally, if you want to run the main script:**

1. **Add a shortcut of the main** [**repository**](https://drive.google.com/drive/folders/1J-v4Li4ajd4_G1hibGrjvb7Jm8HXPXmI?usp=share_link) **to your google drive.**
2. **Open main script** [**height\_of\_the\_children.ipynb**](https://colab.research.google.com/drive/11SHsaejhtdmAq3Ma2MnVnwvrWpOjNnw3?usp=share_link) **in google colab.**
3. **Mount the google drive (run the first cell of the code).**
4. **Change the working directory to your current directory.**
   1. **Copy the path link of the directory to clipboard.**
   2. **Run the second cell, by replacing the copied path link.**

**Final output of the code is MAE and MSE results of the predicted and expected heights of the childrens, which is the result of the final cell of the code.**