Instructions on how to use and run the code -

1. Ensure that the caffemodel and prototxt files for the pose estimation, as well as the utils.py are in the same folder as the Jupyter notebook.
2. Change the paths in the code to that of the new test and reference images.
3. Run all the cells of the Jupyter Notebook.

Requirements: OpenCV, Numpy, Matplotlib, Pandas

Contribution of the team members -

Matthew Avallone (mva271) - Calculation of similarity scores (Pose Matching), Visualization of the overlaid outputs

Siddharth Choudhary (sc7530) - Idea for the problem statement, Testing of the Estimation Model

Kshitija Patel (kap676) - Pose Estimation Model (on MPII dataset) , Cropping and resizing the poses for overlaying, Affine Transformation