Department of Information Engineering
IERG4999 Final Year Project II
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Fashion Images Verification

INTRODUCTION

- Visual fashion analysis has attracted attentions
- Previous work recognizes clothing items by image segmentation and search by the whole clothing region
- Latest work introduces a deep learning model FashionNet, together with the DeepFashion dataset, to predict important fashion landmarks and also fashion attributes

Our Objective :
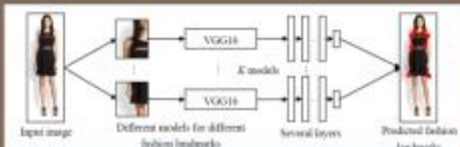- To contributet to the existing learning model by considering human joints as input to facilitate learning process

THE MAIN IDEA
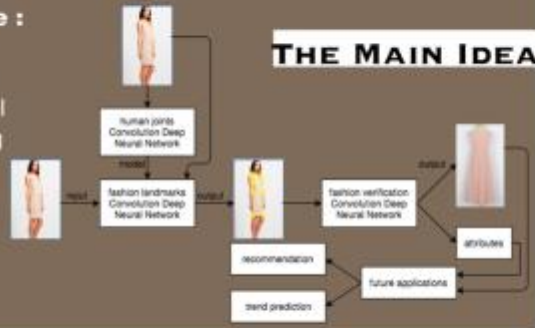
APPROACHES
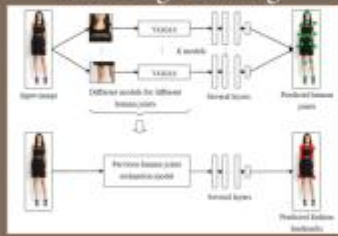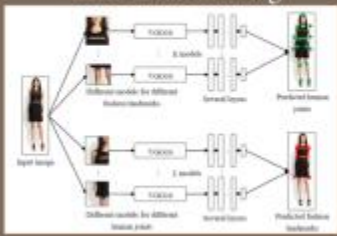
the flowchart of the CNN

DIFFERENT LEARNING METHODS
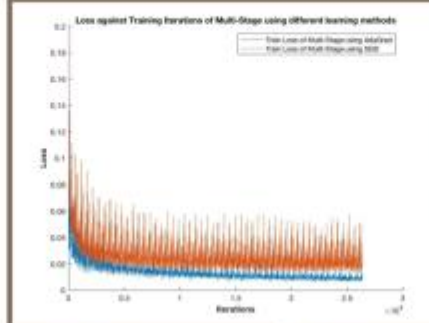
the flowcharts of ...
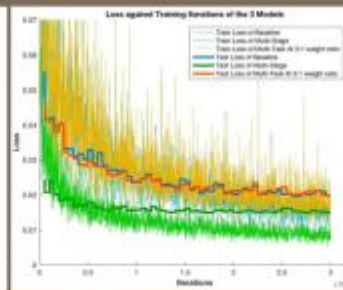*the baseline method*

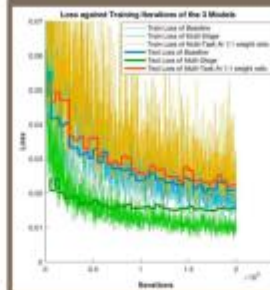*multi-task learning*   *multi-stage learning*
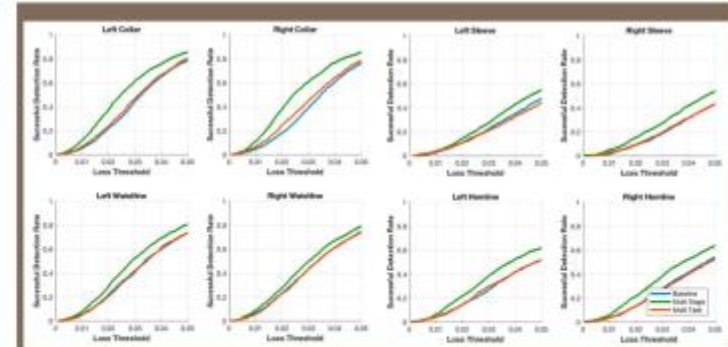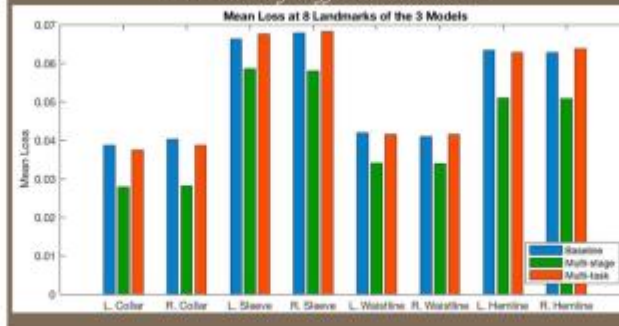

RESULTS
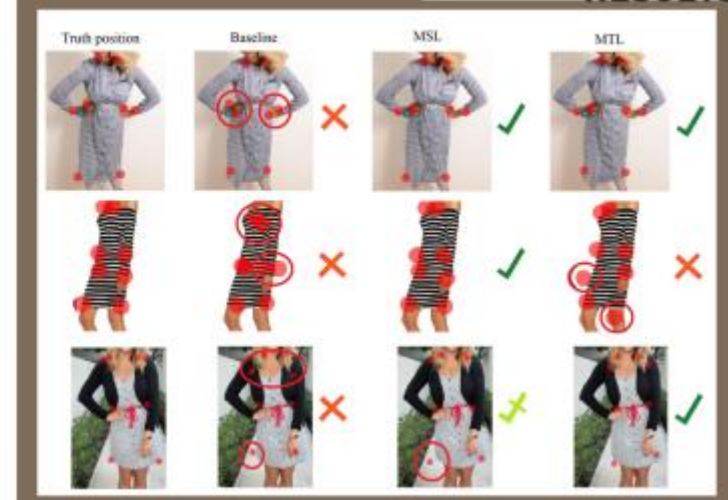
SGD VS ADAGRAD

error for different gradient descent methods

error plots against iterations
(L: equal weights, R: heavier weights)

mean loss of different methods

Mean Loss at 8 Landmarks of the 3 Models

SUCCESSFUL RATE AGAINST TOLERANCE

SAMPLE TRAINING RESULTS

| Truth position | Baseline | MSL | MTL |

CONCLUSION

- DeepFashion has being extended
- human joints information is added
- linear transformation and deep learning method are also investigated
- their accuracies of predicting fashion landmark have been observed