



CMPE 258, Deep Learning

Group project

April 24, 2018

DMH 149A

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Ph.D., Data Scientist

Group Project schedule

Proposal date: 4/12, 4/24

Presentation date : 5/8, 5/10

Report (including code) due date : 5/6

Number of members : 1 to 4

Content: DNN, CNN, RNN related

Platform : Pandas, Numpy, tensorflow, keras (please discuss with me for others)

Grading policy:

- Content : 40 pts

- ; Creativity in data collection, Neural network architecture / algorithm, application (same quality as a conference paper)

- Presentation : 20 pts

- Report : 20 pts

- Code : 20 pts

Group Project Proposal

Content during proposal

- Justification for the project
- Background: any relevant previous work
- How to collect data set
- Which algorithms / platform will be used
- What is the role for each team member

Today's class schedule

For regular class,
location: DMH 149A
time: 4:30pm to 5:45pm

For make-up class,
location: DMH 161
time: 6:00pm to 7:15pm

Group project titles

| Title | Presentation day | Member_1 | Member_2 | Member_3 | Member_4 |
|--|------------------|-------------------|--------------------|----------------|-----------------------------|
| Style Transfer | 12-Apr | Anubha Mandal | | | |
| Criminal Sketch Artist: Text-to-image Synthesis Using a Generative Adversarial Network | 12-Apr | Mina Yi | Alex Richards | | |
| Vehicle detection and tracking in Video | 12-Apr | Meenakshi Paryani | Manika Kapoor | Rucha Apte | |
| Facial Recognition with color images | 24-Apr | Trung Huynh | Tri Ninh | Bijie Qiu | |
| Application of Deep Learning for Image Style transfer | 24-Apr | Aravinda Misra | Saurabh Deshmukh | Tanmay Bhatt | |
| Image semantic segmentation based on deep CNN | 24-Apr | Tu Lan | | | |
| Image captioning using attention mechanism | 24-Apr | Annesha Mukherjee | | | |
| Individuals' stock world | 24-Apr | Zibo Hu | | | |
| AI Gaming Assistant | 24-Apr | Sphoorti Metri | Abhilash Garimella | Qiaoqiao Jiang | |
| Facial Emotions Detection in live video | 24-Apr | Sahitya Mullapudi | Lakshmanan Vivek | Avni Gulati | Suresh Vairamuthu Murugesan |
| Music Fast Style Transform | 24-Apr | Hsien Fang Liu | Hunter Hsieh | Tsung Min Hung | |