Project Progress Report

Smiling Machine

Project Start: 2022-05-27

Display Week: 1

TASK	ASSIGNED TO	PROGRESS	START	END
1. Learning and Initial Model Confirmation				
1.1 Organize the useful information to the shared google docs	All	100%	2022-05-27	2022-07-11
1.2 Literature review on cGAN and other neural networks available	All	100%	2022-05-27	2022-05-31
1.3 Discussion on the next step and detailed plan	All	100%	2022-05-31	2022-05-31
1.4 Study GAN	All	100%	2022-06-01	2022-06-04
1.5 Study conditional GAN	All	100%	2022-06-01	2022-06-04
1.6 Study cycle GAN	All	100%	2022-06-01	2022-06-04
1.7 Project Proposal	All	100%	2022-05-27	2022-06-07
1.8 Research on the implementation of encoder	Ines	100%	2022-06-08	2022-06-16
1.9 Research on the implementation of generator	Frank	100%	2022-06-08	2022-06-16
1.10 Research on the implementation of discriminator	Cathy	100%	2022-06-08	2022-06-16
1.11 Develop our own proposed GAN model	All	100%	2022-06-16	2022-06-22
1.12 Check-in with the TA on the team's model proposal	All	100%	2022-06-22	2022-06-22
1.13 Bring a baseline model for cycleGAN to the team's discussion	Cathy, Frank	100%	2022-06-23	2022-06-26
1.14 Bring a baseline model for cGAN to the team's discussion	Ines, Cuiyushan	100%	2022-06-23	2022-06-26
1.15 Dicuss with the team on choosing the feasible model to implement	All	100%	2022-06-26	2022-06-26
2. Model Construction				
2.1 Find Smiling Data Source	All	100%	2022-06-01	2022-06-04
2.2 Clean and Categorize Data	Cuiyushan	100%	2022-06-04	2022-06-08
2.3 Data Augmentation	Ines	100%	2022-06-08	2022-06-16
2.4 Data Loading and Splitting	Ines	100%	2022-06-08	2022-06-16
2.5 Generate Baseline Model - Autoencoder	Cathy, Frank	100%	2022-06-16	2022-06-30
2.6 Create Generator	Frank, Ines	100%	2022-06-16	2022-06-30
2.7 Create Discriminator	Cathy, Ines	100%	2022-06-16	2022-06-30
2.8 Check-in with the TA on the team's model implementation	All	100%	2022-07-06	2022-07-06
2.9 Train Generator for the primary model	Frank, Ines	100%	2022-06-30	2022-07-06
2.10 Train Discriminator for the primary model	Cathy, Ines	100%	2022-06-30	2022-07-06
3. Project Progress Report				
3.1 Brief Project Description	Frank	100%	2022-07-03	2022-07-07
3.2 Individual Contribution and Responsibilities	Cathy	100%	2022-07-03	2022-07-10
3.3 Data Processing	Frank	100%	2022-07-03	2022-07-07
3.4 Baseline Model	All	100%	2022-07-03	2022-07-10
3.5 Primary Model	Ines	100%	2022-07-03	2022-07-10
4. Further Enhancement of the Model				
3.1 Build Encoder	All	25%	2022-07-10	2022-07-17
3.2 Train Encoder with Generator and Discriminator for the primary model	Ines	0%	2022-07-17	2022-07-24
3.3 Study Lightning Pytorch for faster training speed	All	100%	2022-07-03	2022-07-07
3.4 Incorporate Lightning into our model	Cathy	25%	2022-07-08	2022-07-17
3.5 Study Wasserstein GAN	All	0%	2022-07-10	2022-07-17
3.6 Try to implement wGAN into our model	Frank	0%	2022-07-17	2022-07-31

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