Fall Plan

Week No. (DDL)	Task	Task No.	Sub-task	Dependencies	Assigned to
9/4	Fall plan	V0	Submit fall plan and presentation, set up weekly meeting documents and schule		Entire team
9/7	Dataset preparation	A1	Generate list of recording IDs needed		Cecilia
9/14	Dataset preparation	A2	Generate feature data with new recordings (REMI Events)	A1	Silvia
9/14	Dataset preparation	A3	Music data augmentation by chunking up each piece of music into 16-bar segments	A2	Silvia
9/14	Dataset preparation	A4	Analyze sample text label (potential Text preprocessing for labels)		Cecilia
9/21	Dataset preparation	A5	Match chunked music segments with text for new positive and negative tuples	A3	Cecilia
9/28	Dataset preparation	A6	Music EDA and further data cleaning	A4	Silvia
9/7	Model building	B1	Implement music encoder using MuseMorphose		Zhouyao
9/7	Model building	B2	Implement BERT text encoder		Nikhil
9/21	Model building	B3	Implement cross-attention	B1, B2	Nikhil

9/21	Model building	B4	Implement contrastive loss	B1, B2, B3	Zhouyao
10/10	Model building	B5	Implement metrics (e.g. log likelihood, coherence scores, etc.) for model evaluation		Silvia
10/2	Model building	B6	Develop model training pipeline	B1, B2, B3, B4	Zhouyao, Nikhil
10/8	Model building	B7	Integrate text, music, and cross attention into single musicCLIP model class	B1, B2, B3, B4	Zhouyao, Nikhil
10/17	Model building	B8	Develop model inference pipeline (the generative module)	B1, B2, B3, B4, B7	Zhouyao, Nikhil
10/24	Model building	B9	Experiment with using deepscale to distribute model across multiple GPUs	B6, B7	Zhouyao, Nikhil
10/24	Baseline result	C1	Model training	A, B	Entire Team
10/24	Baseline result	C2	Model evaluation	A, C1, B5	Silvia
10/24	Midterm Check-up	V1	Check-up meeting with Prof. Nyberg		Entire Team
10/31	Experimentation	D1	Error analysis	A, B	Entire Team
11/16	Experimentation	D2	Hyperparameter tuning	A, B	Entire Team
12/7	Experimentation	D3	Other model improvement ideas (e.g. data augmentation, different event definition, etc.)	A, B	Entire Team
11/20	Final	V2	Draft Report		Entire Team
12/7 - 12/14	Final	V3	Final Presentation		Entire Team

12/15	Final	V4	Final Report		Entire Team