Week 1-2:
Idea initiation

Week 2-5:
Research and idea finalized

Week 5-8:
Build sentiment analysis model
In parallel design prediction model(probably won't be fully functional till week 12)

Week 8-12:
Develop APIs
Finishing prediction model

Week 12-13:
Integrate data with prediction model
Test

Week 13-16:
Final bug fixes and algorithm optimization