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AE 457
12/4/19

Initial Project Schedule

Task	Start Date	Due Date	Deliverables	Status	Notes
Proposal	9/9	9/11	Documentation detailing problem/opportunity and proposed solution	Completed	Project idea was drafted prior to enrolment in AE 457
Research	9/24	9/25	Document detailing current literature that is relevant problem/opportunity and proposed solution	Completed	
Problem Justification	10/8	10/2	Documentation detailing the feasibility and necessity of proposed solution	Completed	Submitted late
Assumptions and Constraints	10/8	10/9	Documentation detailing assumptions and constraints that are expected to be encountered with the proposed solution	Completed	Major constraint is a lack of data because of the interface used to access data from BRAMS
Investigate Other Solutions and Compare Effectiveness	10/15	10/16	Documentation detailing other possible solutions that also compares other possible solutions with proposed solution Documentation provides reasoning for sticking with proposed solution or switching to other possible solution	Completed	Sticking with proposed solution
Formal Project Proposal	10/22	10/23	Formal document with all previous documentation data included to concisely and effectively detail	Completed	

			proposed solution		
Project Presentation	10/22	10/23	Powerpoint presentation that is based on formal project proposal	Completed	
Project Requirements	11/12	11/13	Documentation detailing all necessary materials and funds for successful project completion	Completed	
Project Budget	11/26	11/27	Documentation detailing two budgets, proposed and ideal, where all costs for successful project completion are estimated and provided	Completed	Proposed budget is $0
Initial Project Schedule	12/3	12/4	Documentation detailing the schedule of the project	Completed	This document
Grant Proposal	12/3	12/4	Documentation detailing a grant relevant to project (summary) Letter of intent	In progress	
Final Project Presentation	12/10	12/11	Powerpoint presentation that is based on all previous documentation	Not Started	
Learn Keras/TensorFlow SDK	12/20	1/6	Understanding of how to use Keras/TensorFlow to create an effective model	Not Started	Ideally,
Obtain Data from BRAMS	1/6	4/24	Python based web scraper that can easily obtain spectrographs for a given date range Spectrographs in image format	Not Started	Will be an ongoing process
Pre-process Data from BRAMS	1/6	4/24	Data detailing where meteors are within a spectrograph for each spectrograph	Not Started	Will be an ongoing process

Develop and Train Keras/TensorFlow model	1/6	4/24	Machine learning model that can detect meteors within a spectrograph (image format) with at least 50% accuracy	Not Started	Will be an ongoing process
Blog Post	3/15	4/24	Blog post detailing work done, items learned, and plans for the future	Not Started	Not required for project success
Wrap up Project	4/10	4/24	Interface that can be used to apply the model on provided spectrograph	Not Started	Will be terminal based
Final Project Presentation	4/10	4/24	Powerpoint presentation detailing work done on project and project's success	Not Started	

This is a working document and may need updates to address inaccuracies or changes that are made/discovered in the future.