

Tasks	Progress	Start	Due	Start on Day*	Duration*	Hours	Deliverable
Forecast: 1.0 Research and identify financial forecasting algorithms							
Forecast: 1.1 Academic and industry paper research on algorithm	100%	12/21/2020	1/25/2021	0	35	70	
Forecast: 1.2 Create a list of viable algorithm	100%	1/1/2021	1/25/2021	11	24	16	
Forecast: 1.3 Create a planning review with algorithms	100%	1/2/2021	1/29/2021	12	27	24	
Actual: 1.0 literature review and tensorflow, python learning	100%	12/21/2020	2/14/2021	0	55	90	Finished 32 research paper
Forecast: 2.0 Develop forecasting algorithms that can forecast S&P 500							
Forecast: 2.1 Research source code and help for chosen algorithms	100%	2/1/2021	3/1/2021	42	28	20	
Forecast: 2.2 Collect data from API	100%	3/1/2021	3/3/2021	70	2	6	
Forecast: 2.3 ETL	100%	3/9/2021	3/8/2021	72	5	20	
Forecast: 2.4 Data correlation test	100%	3/9/2021	3/16/2021	78	7	20	
Forecast: 2.5 Develop and train the algorithm 1	100%	3/17/2021	3/24/2021	86	7	40	
Forecast: 2.6 Develop and train the algorithm 2	100%	3/25/2021	4/1/2021	94	7	40	
Forecast: 2.7 Develop and train the algorithm 3	100%	4/2/2021	4/9/2021	102	7	40	
Forecast: 2.8 Develop and train the algorithm 4	100%	4/10/2021	4/17/2021	110	7	40	
Actual: 2.0 Tensorflow and python learning, ETL and algorithm development	100%	2/1/2021	5/1/2021	42	89	120	ETL feature and target data, developed 5 algorithm
Forecast: 3.0 Test developed algorithm on S&P 500							
Forecast: 3.1 Collect data and ETL for S&P 500	100%	4/18/2021	4/23/2021	118	5	10	
Forecast: 3.2 Test the trained algorithms on S&P 500	100%	4/24/2021	5/9/2021	124	15	30	
Forecast: 3.3 Collect the results in the research paper	100%	4/24/2021	5/14/2021	124	20	40	
Actual: 3.0 Test and train algorithm, writing research paper	100%	4/15/2021	6/15/2021	115	61	90	forecasting result and a draft research paper
Forecast: 4.0 Test developed algorithm on two time frames							
Forecast: 4.1 Test the algorithms for the first time frames	100%	4/24/2021	5/14/2021	124	20	20	
Forecast: 4.2 Test the algorithms for the second time frames	100%	4/24/2021	5/14/2021	124	20	20	
Forecast: 4.3 Collect the results in the research paper	100%	5/1/2021	5/21/2021	131	20	40	
Actual: 4.0 Tuning the algorithm with training and testing data, writing research paper	100%	5/21/2021	6/15/2021	151	25	30	5 algorithm with different setting and a draft research paper
Forecast: 5.0 Compare algorithm performance over the tests and produce a comparison document							
Forecast: 5.1 Record first time frames and second time frames in advance values	100%	5/1/2021	5/21/2021	131	20	16	
Forecast: 5.2 Record Accuracy	100%	5/1/2021	5/21/2021	131	20	16	
Forecast: 5.3 Prediction of Change in Direction	100%	5/15/2021	5/21/2021	145	6	10	
Forecast: 5.4 Compare each of the algorithms results	100%	5/21/2021	5/28/2021	151	7	20	
Actual: 5.0 Algorithm comparison, writing research paper	100%	6/15/2021	6/25/2021	176	10	15	best algorithm comparison and return result, a draft research paper
Forecast: 6.0 Develop conclusions on the best algorithms							
Forecast: 6.1 Create a conclusion on the best algorithm(s)	100%	5/28/2021	6/9/2021	158	12	20	
Forecast: 6.2 Develop Viva	10%	6/9/2021	6/19/2021	170	10	20	
Forecast: 6.3 Present the conclusions made	10%	7/1/2021	7/1/2021	192	0	2	
Actual: 6.0 research paper and conclusion	100%	6/20/2021	6/30/2021	181	10	20	research paper and appendix

*Cells calculated automatically

