

Technical Report

Course Number: CS 4982

Comparing Machine Learning Algorithms on Time Series Data: Progress Report II

Name: Eric Foote

ID Number: 3502094

Friday October 29 2021

Supervisor: Dr. P.Mahanti

Department of Computer Science

University of New Brunswick Saint John

## Progress Report

For the period of Friday October 8 to Thursday November 18 I had the following goals I wanted to meet: get the entire research finished, look up and read appropriate tutorials to understand the coding of the models, do some exploratory work on the data set, decide what models I am going to code for the project, code all of the models using the tutorials as a guide to understand what python libraries, packages and functions are needed and finally begin the writing process for the report as I finish up applying the models to forecast the period of September 28 2021. I was able to do all of that with the exception of not having the convolutional neural network finished as of Wednesday November 17 and not having the forecasting done yet.

### Current Time Spent:

Description	Time Spent	Total Time Spent
Technology Setup	1 Hour	1 Hour
Data Collection	1 Hour	2 Hours
Exploring Dataset	3 Hour	5 Hours
Research	25 Hours	30 Hour
Reading Tutorials	10 Hour	40 Hour
Deciding Models	1 Hour	41 Hours
Inserting Data into Python	1 Hour	42 Hours
Coding Models	20 Hours	62 Hours
Getting LaTeX Template	2 Hours	64 Hours
Beginning Writing Report	4 Hours	68 Hours

Between November 17<sup>th</sup> and December 8<sup>th</sup> I will have the remainder of the project completed with the hours spent around the original proposed length since between now and then I still have to finish the remainder of the models, get the forecasting complete, write the rough draft of the report, tweak that rough draft to complete the final draft and create a presentation. Those 5 things should take approximately 52 hours to put this in line with the proposal.