MMAI 5200

Final Project

Deadline for handing in the proposal: Sunday Dec 12, 2021 at 11:59pm.

Please take the following into consideration when handing in the assignment:

1) **This is a group assignment.**

2) Please submit a single zip file that includes both the Python script file and a pdf file that includes your key results and your answer to Part B.

3) Put your student numbers in the name of the zip file. For example, the name becomes "123456-234567.zip."

Month	1	2	3	4	5	6	7	8	9	10
Demand	100	112	107	103	91	85	84	85	79	81
Advance demand	71	30	75	64	41	51	42	51	57	49

Month	11	12	13	14	15	16	17	18	19	20
Demand	134	86	99	89	111	114	118	163	193	143
Advance demand	134	52	99	56	81	79	73	163	193	99

Month	21	22	23	24	25
Demand	144	202	158	160	144
Advance demand	91	202	105	101	96

a) Use the demand data given in the table and develop an appropriate forecasting model (i.e., demand regularization model that combines the OLS model with a tailored regularization) that exploits the available information given in the table as much as possible.

b) Interpret your results.