Option B – Marking Scheme:

How does the bonus marks (+3) work?

The bonus marks will be added to your total but the total mark for Option B cannot exceed 100 marks.

Task	Deadline	Mark
Task B.1: Set up your environment for the project including on your local machine and a github repository; run the given code bases.	11:59pm 18/08/2023 (Week 3)	10 (+3)
Task B.2: Data Processing 1: Load and process datasets with multiple features; use different methods to split the data into train/test data; store/load data locally for future uses.	11:59pm 25/08/2023 (Week 4)	10
Task B.3: Data Processing 2: Use different methods to visualise your data; store a visualisation of your data as an image for image processing.	11:59pm 1/09/2023 (Week 5)	10
Task B.4: Machine Learning 1: Use a more general way to construct the model. Try different DL networks: RNN/GRU/Simple FF. Experiment with different hyperparameter configurations.	11:59pm 8/09/2023 (Week 6)	10
Task B.5: Machine Learning 2: Solve more advanced prediction problems including multivariate prediction and multistep prediction.	11:59pm 22/09/2023 (Week 7)	15
Task B.6: Machine Learning 3: Work on ensemble approach/combining multiple approaches for improving prediction quality.	11:59pm 6/10/2023 (Week 9)	15
Task B.7: Simple Extension beyond B.1-6 -- Combine stock price data with other types of data (e.g., the number of times the company is mentioned on Twitter, etc.) – to be suggested and supervised by the project leader.	11:59pm 29/10/2023 (Sunday Week 12)	10
Task B.7: Comprehensive extension + Independent Research (approved by unit convenor) -- You initiate the extension by yourself and conduct an independent and outstanding research.	11:59pm 29/10/2023 (Sunday Week 12)	20
Total		100
You need to follow good programming practice (e.g., well-designed, well-structured codes with clear and helpful comments). Failure to do so get penalty.		**Up to -20**