Mini Project

FACULTY OF INFORMATION & COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

MACHINE LEARNING

BITI 2223	SEMESTER 1	SESI 2020/2021

You are required to demonstrate your machine learning skills and knowledge to complete a machine learning prototype in group. You are free to work on any topic of your choice in completing this project.

You need to complete the following milestones:

1) Submit a project proposal (maximum 10 pages including appendix) by 14th January 2021. Discuss with your instructor on your proposal. You need to include:
   i. Executive Summary
   ii. Project Background
   iii. Objective
   iv. Scope
   v. Project Significant
   vi. Expected Outcome
   vii. Tools and Algorithm to Use
2) You are required to complete the prototype within 2 weeks' time.
3) You need to present your project online through MS Teams on:
   i. Progress 1: 28th January 2021 (Thursday), 8am – 11am (max 10 minutes each group)

      Meeting Link: https://teams.microsoft.com/l/meetup-join/19%3abe833519db40437b81d62cb18877a3ce%40thread.tacv2/1610673815958?context=%7b%22Tid%22%3a%22677eeb56-f2df-4675-9e0c-ccd600a91580%22%2c%22Oid%22%3a%2247b028d2-08cc-4cca-9201-c0269941c11f%22%7d

      Group 1: 0800-0810
      Group 2: 0810-0820
      Group 3: 0820-0830
      Group 4: 0830-0840
      Group 5: 0840-0850
      Group 6: 0850-0900
      Group 7: 0900-0910
      Group 8: 0910-0920
      Group 9: 0920-0930
      Group 10: 0930-0940
      Group 11: 0940-0950
      Group 12: 0950-1000
      Group 13: 1000-1010
      Group 14: 1010-1020
      Group 15: 1020-1030
      Group 16: 1030-1040
      Group 17: 1040-1050
      Group 18: 1050-1100

   ii. Final Presentation: 4th February 2021 (Thursday), 8am – 2pm
      *You have **20 minutes** (including question and answer session) to present your project. Please enter the online meeting room 20 minutes before your group presentation time.*

      Meeting Link: https://teams.microsoft.com/l/meetup-join/19%3abe833519db40437b81d62cb18877a3ce%40thread.tacv2/1610674256135?context=%7b%22Tid%22%3a%22677eeb56-f2df-4675-9e0c-ccd600a91580%22%2c%22Oid%22%3a%2247b028d2-08cc-4cca-9201-c0269941c11f%22%7d

      Group 1: 0800-0820
      Group 2: 0820-0840
      Group 3: 0840-0900
      Group 4: 0900-0920
      Group 5: 0920-0940
      Group 6: 0940-1000
      Group 7: 1000-1020
      Group 8: 1020-1040
      Group 9: 1040-1100
      Group 10: 1100-1120
      Group 11: 1120-1140
      Group 12: 1140-1200
      Group 13: 1200-1220
      Group 14: 1220-1240
      Group 15: 1240-1300
      Group 16: 1300-1320
      Group 17: 1320-1340
      Group 18: 1340-1400

4) Besides, you need to peer review 5 other projects individually using the *Peer Review Form* attached. Submit your review using the peer review submission link in ULearn.

5) You need to report your project in group using the IEEE technical paper format. You need to attach the prototype raw file as the evidence.

6) Project submission should be made through ULearn system by 4th February 2021, before 11:59pm.

7) In general, the evaluation will be based on the following perspectives:

Item	Evaluation Perspectives:
1	Justifiable & reproducible exploratory analysis
2	Feature engineering
3	Appropriate machine learning solutions
4	Pertinent & needful experimentation
5	Feasible results
6	Precise & compact report
7	Technical skills
8	Communication & Presentation Skills

NOTE:

Plagiarism is strictly prohibited. Severe penalties apply for plagiarism in any related work. Students found plagiarizing may be failed in this course. In case of doubt, please consult your instructors.

BITI2223 MACHINE LEARNING
Group Project Evaluation Form

Project Title:

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Group Members: (i) _____ (ii) _____

(iii) _____ (iv) _____

Presentation Date: _____ Presentation Time: _____

No.	Elements	Marks	
		Obtained Marks	**Full Marks**
1.	**Technical Paper** • Project/Paper Title (Suitable & Precise) (1) • Paper Format (Follow IEEE) (1) • Clarity (1) • Originality (2)		5 %
2.	**Project Work** • Slides (Compact & Precise) (1) • Overall organization of Presentation (1) • Soft Skills (Teamwork/Management) (1) • Creativity & Innovation (2) • Peer Review (5)		10%
3.	**Individual Evaluation** • Contribution (5) • Quality of Work (5) • Question & Answer (Correct & Confidence) (5)	(i) (ii) (iii) (iv)	15%
	TOTAL		30 %

Overall Comments:

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BITI2223 MACHINE LEARNING
Peer Review Form

Project Title:

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Group Members: (i) _____ (ii) _____

(iii) _____ (iv) _____

Evaluator : _____

Presentation Date: _____ Presentation Time: _____

No.	Elements	Marks	
		Obtained Marks	**Full Marks**
1.	**Project Work** • Slides (Compact & Precise) (1) • Overall organization of Presentation (1) • Soft Skills (Teamwork/Management) (1) • Creativity & Innovation (2)		5%
2.	**Individual Evaluation** • Contribution (5) • Quality of Work (5) • Question & Answer (Correct & Confidence) (5)	(i) (ii) (iii) (iv)	15%
	TOTAL		20 %

Overall Comments:

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