Project Technical Specialist I Exam

Part I. Machine Learning

- 1. Train any machine learning model
- 2. Deploy the model to the web
 - Has a prediction functionality
 - Any free web hosting or your personal portfolio
 - Kindly incorporate creative layout and design to demonstrate/display your skills.

(optional) To aid you in this assignment, kindly see attached dataset which you can build a machine learning algo to predict if an Australian will buy a bike according to these factors in the dataset.

Part II. Database query

- 1. Write an SQL query to fetch first name of the student in upper case.
- 2. Write an SQL query to fetch unique values of Major subjects from student table.
- 3. List all student and their scholarship amounts if they have received any. If a student has not received a scholarship, display Null for the scholarship details
- 4. Write an SQL query to list student id who does not get scholarship.

Student Table

STUDENT_ID	FIRST_NAME	LAST_NAME	GPA	ENROLLMENT_DATE	MAJOR
201	Shivansh	Mahajan	8.79	2021-09-01 09:30:00	Computer Science
202	Umesh	Sharma	8.44	2021-09-01 08:30:00	Mathematics
203	Rakesh	Kumar	5.60	2021-09-01 10:00:00	Biology
204	Radha	Sharma	9.20	2021-09-01 12:45:00	Chemistry
205	Kush	Kumar	7.85	2021-09-01 08:30:00	Physics
206	Prem	Chopra	9.56	2021-09-01 09:24:00	History
207	Pankaj	Vats	9.78	2021-09-01 02:30:00	English
208	Navleen	Kaur	7.00	2021-09-01 06:30:00	Mathematics

Program Table

STUDENT_REF_ID	PROGRAM_NAME	PROGRAM_START_DATE
201	Computer Science	2021-09-01 00:00:00
202	Mathematics	2021-09-01 00:00:00
208	Mathematics	2021-09-01 00:00:00
205	Physics	2021-09-01 00:00:00
204	Chemistry	2021-09-01 00:00:00
207	Psychology	2021-09-01 00:00:00
206	History	2021-09-01 00:00:00
203	Biology	2021-09-01 00:00:00

Scholarship Table

STUDENT_REF_ID	SCHOLARSHIP_AMOUNT	SCHOLARSHIP_DATE
201	5000	2021-10-15 00:00:00
202	4500	2022-08-18 00:00:00
203	3000	2022-01-25 00:00:00
201	4000	2021-10-15 00:00:00