Module #1 Plan | CSE 310 – Applied Programming

|Alejo Alegre Bustos|09/23/2025|BYUI| |Professor: McGary |

Software Description

For this module I am going to develop a machine learning module to predict if a user of the final app is eligable fro a loan or not. If it is not, it is going to give you some tips to improve your credit condition.

- I am going to use **XGBoost**, a gradient boosting technique, to classify the new information (user info).
- I am going to use a dataset from Kaggle to train this model: Bank Loan Modelling.
- The output for this model will be **1** or **0**.

Module

Mark an **X** next to the module you are planning

Module		Language
Cloud Databases		Java
Data Analysis		Kotlin
Game Framework		R
GIS Mapping		Erlang
Mobile App		JavaScript
Networking		C#
Web Apps		TypeScript
Language – C++		Rust
SQL Relational Databases		Choose Your Own Adventure
Machine Learning	X	Python

Create a Schedule

Create a detailed schedule using the table below to complete your selected module during this Sprint. Include details such as what (task), when (time), where (location), and duration. You should also include time to work on your team project. You are expected to

spend 16 hours every Sprint working on your individual module, team project, and other activities. Time spent on this individual module should be at least 10 hours.

	First Week	Second Week
Monday	Data exploration	Train model
Tuesday	Data exploration	Train model
Wednesday	Cleaning Data	Test module new data
Thursday	Cleaning Data	improve model acuarancy
Friday	Cleaning Data	Final draft
Saturday	Tokenization	Test module new data

Identify Risks

Identify at least two risks that you feel will make it difficult to succeed in this module. Identify an action plan to overcome each of these risks.

	Risk	Action Plan
1	the performance of the app could be compromised if the module is too big	Save module as .JSON file