## **Final**

## Due to 11:59 pm 07/28/2024

Follow the instructions below very carefully, please submit your source code named as **FirstName LastName.ipynb** 

## **Context**

This dataset is originally from the National Institute of Diabetes and Digestive and Kidney Diseases. The objective is to predict based on diagnostic measurements whether a patient has diabetes.

## **Content**

Several constraints were placed on the selection of these instances from a larger database. In particular, all patients here are females at least 21 years old of Pima Indian heritage.

- Pregnancies: Number of times pregnant
- Glucose: Plasma glucose concentration 2 hours in an oral glucose tolerance test
- BloodPressure: Diastolic blood pressure (mm Hg)
- SkinThickness: Triceps skin fold thickness (mm)
- Insulin: 2-Hour serum insulin (mu U/ml)
- BMI: Body mass index (weight in kg/(height in m)^2)
- DiabetesPedigreeFunction: Diabetes pedigree function
- Age: Age (years)
- Outcome: Class variable (0 or 1)
- 1. Prepare the provided Diabetes dataset, implement <u>ONE of the classification techniques</u> and evaluate the performance using the proper metrics for the binary classification of the variable "Outcome"