

Make a dataset named 'age-facebook' (follow the table below) where there are two columns age and has_facebook_account. Each row represents a person's age and if he/she has any Facebook account. Now follow the following instructions:

- a. Print your name, id, section, course code and course title in the 2nd cell of your notebook.
- b. Load the given dataset, show first and last 3 rows.
- c. Show how many rows and columns are there in the dataset.
- d. Find total number of missing data (if any).
- e. Fill the missing data (if any).
- f. Visualize the dataset after filling missing values.
- g. Calculate the total percentage (%) of Facebook users of the following age groups:
 - I. 0 – 14
 - II. 18 – 28
 - III. 30+
- h. Show the calculation result of (g) in a pie chart.
- i. Given age of a person and you want to predict if the person has Facebook account or not. Which machine learning model will you use to predict the result? Train the model with the given dataset.
- j. Given age for three persons 07, 29, and 79, predict if they have any Facebook accounts.
- k. Calculate the accuracy of your trained model.

age	has_facebook_account
24	1
21	1
10	0
58	1
16	0
56	0
28	1
13	0
18	1
17	1
80	0
12	0
44	1
6	0
25	1
67	0
1	0
26	1
22	
23	1