0917451 AI and Machine Learning (Spring 2022) <u>Quiz 1A</u>

رقم الشعبة الأصلية:

رقم التسجيل:

الاسم:

<u>Instructions</u>: Time 15 minutes. Open book and notes exam. No electronics. Please answer all problems in the space provided and limit your answer to the space provided. No questions are allowed.

space pro	ovided and limit your answer to the space provided. No questions are allowed.
P1. Of th	ne 6 reasons given below, √ check the three main reasons why AI is succeeding now.
\Box P	roblems are becoming easier to solve.
	Computers are becoming faster.
□ T	raining datasets are becoming more available.
\Box N	fore users are becoming connected through the internet.
\Box D	evelopers are developing better algorithms.
	nternet communication is becoming faster.
P2. Assu	me that you have a very small dataset. What validation scheme you would use and why?
]	k-fold cross validation technique because it provides better accuracy as every training
	instance gets the chance to be in the train and test sets.
data	t pandas as pd = pd.read_csv("filename.csv") info()
<	<pre>class 'pandas.core.frame.dataframe'=""></pre>
	angeIndex: 100000 entries, 0 to 99999
D	ata columns (total 3 columns):
С	olumn_1 100000 non-null float64
	olumn_2 100000 non-null float64
	olumn_3 10 non-null float64
	types: float64(3) emory usage: 2.5 MB
data	a = data.drop('column_3', axis=1)
	<good luck=""></good>