

### 3 Mavzuga doir savollarga javoblar.

Table 1. Supervised learning 1 smart grid stability prediction.

Reaction time	Nominal power	Price elasticity coefficient	Stable/unstable
1.1	500	0.78	stable
0.9	490	0.80	unstable
1.0	498	0.90	stable
1.1	505	0.87	unstable

Table 2. Supervised learning 2. Student exam prediction.

Hours studied	Attendance (%)	Passed(yes/no)
5	90	yes
2	70	no
4	80	Yes
1	60	no

Table 3. Unsupervised learning 1. Customer clustering.

Age	Annual Spending (uzs)
25	25 mln
35	40mln
45	45mln
30	30 mnl

Table 4. reinforcement learning 1. grid world environment

state	action	Next state	reward
A	right	B	0
B	Down	E	1
E	Left	D	-1
D	Up	A	0

## REPORT FOR LESSON 2

Machine Learning is divided three main types:

1. Supervised Learning
2. Unsupervised Learning
3. Reinforcement Learning

1. Supervised Learning works with labelled data which has input and output values.
2. Unsupervised Learning works with unlabeled data and it is often for clustering and data exploration
3. Reinforcement Learning is a type of machine learning in which an agent learns by interacting with an environment. Agent takes actions and receives rewards or penalties based on its actions.