2-dars savol-javob

• 1-savol: Jadvaldagi muammo nima qatoridagi uy narxini predict qilish misoliga o’xshash 2 ta

misol toping va misoldagidek kerakli farazlar(feature) ro’yhatini tuzing

Javob: 1-mashina narxini predikt qilish. Farazlar yili, rangi, yurgan masofasi, motor hajmi

2-talabaning gpa bahosini predict qilish. Fazarlar: attendance,darsdagi faollik, vazifalarga olingan ball

• 2-savol: 1- savolda tuzilgan 2 ta misol uchun muammoni yechishdan maqsadni yozing

Javob: mashina narxini predict qilishdan maqsad moshinaning bozor narxini bashorat qilish. GPA bahosini predict qilishdan maqsad talabalar orasidagi odillikni aniqlab baho chiqarish

  1-savol: Supervised Ml ga oid 2 ta misol toping va o’zingiz misollardan berilganidek jadval

to’ldiring

Javob:

1-mashina narxini predict qilish

| **Yil** | **Masofa (km)** | **Dvigatel (L)** | **Egalar soni** | **Narx ($)** |
| --- | --- | --- | --- | --- |
| 2018 | 60 000 | 1.6 | 2 | 11 000 |
| 2020 | 30 000 | 2.0 | 1 | 15 000 |
| 2017 | 80 000 | 1.6 | 3 | 9 000 |

2-talaba bahosini predict qilish

| **O‘qish soati** | **Dars qoldirishlar** | **Avvalgi test** | **Yakuniy baho** |
| --- | --- | --- | --- |
| 5 | 2 | 70 | 75 |
| 10 | 0 | 80 | 90 |
| 3 | 4 | 65 | 60 |
| 8 | 1 | 78 | 85 |
| 6 | 3 | 72 | 70 |

• 2-savol: Unsupervised Ml ga oid 2 ta misol toping va o’zingiz misollardan berilganidek jadval

to’ldiring

Javob:

**Musiqiy qo‘shiqlarni janr bo‘yicha guruhlash**

| **Qo‘shiq nomi** | **BPM** | **Energiya (0–1)** | **Dansability (0–1)** | **Lirik uzunligi** | **Instrumentalness (0–1)** | **Cluster (Janr)** |
| --- | --- | --- | --- | --- | --- | --- |
| Song A | 120 | 0.8 | 0.9 | 150 | 0.05 | ? |
| Song B | 85 | 0.3 | 0.4 | 200 | 0.1 | ? |
| Song C | 130 | 0.9 | 0.95 |  |  |  |

**Kitoblarni mavzuga qarab guruhlash**

| **Kitob nomi** | **So‘zlar soni** | **Kalit so‘zlar** | **Sahifalar soni** |  |
| --- | --- | --- | --- | --- |
| Book A | 50000 | [“ilm”, “texnika”] | 300 |  |
| Book B | 120000 | [“siyosat”, “tarix”] | 500 |  |
| Book C | 70000 | [“romantika”, “sevgi”] | 250 |  |
| Book D | 90000 | [“ilm”, “fizika”] | 350 |  |
| Book E | 150000 | [“siyosat”, “iqtisod”] | 600 |  |

• 3-savol: Reinforcement Ml ga oid 2 ta misol toping(O’rganilishi kerak bo’lgan mavsular bo’lani

sababli jadval to’ldirish shart emas)

Javob:

1-smart home

2-moshina avtopiloti

• 4-savol: O’tilgan 2 ta mavzu bo’yicha xulosalaringiz va takfilaringizni yozing

Javob: Asosan ML turlari supervised, unsupervised va reinforcementni farqini tushundim. Supervisedd features va labellar berilganiga ishlash nisbatan osonroq. Supervisedda esa featurelar beriladi lekin label berilmaydi mashina features asoslanib labelni ozi bashorat qilishi kerak boladi. Reinforcement esa koproq robototexnika koproq foydalaniladi. Bunda mashina jazo yoki mokofot prinsipida ishlaydi