

Buys Computer

Müşteri No

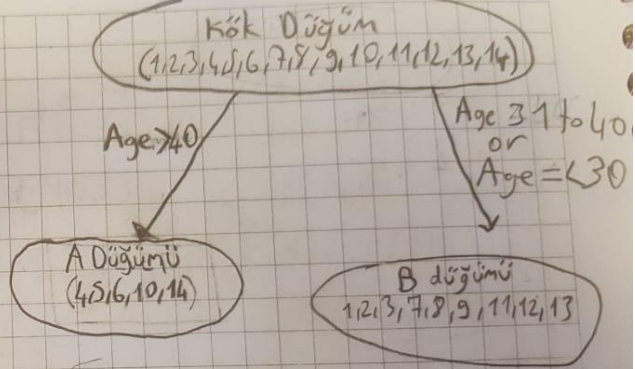
	Age	Income	Student	Credit_Rating	Buys_Computer
1	≤ 30	high	no	fair	no
2	≤ 30	high	no	excellent	no
3	31....40	high	no	fair	yes
4	> 40	medium	no	fair	yes
5	> 40	low	yes	fair	yes
6	> 40	low	yes	excellent	no
7	31....40	low	yes	excellent	yes
8	≤ 30	medium	no	fair	no
9	≤ 30	low	yes	fair	yes
10	> 40	medium	yes	fair	yes
11	≤ 30	medium	yes	excellent	yes
12	31....40	medium	no	excellent	yes
13	31....40	high	yes	fair	yes
14	> 40	medium	no	excellent	no

KÖK DÜĞÜM ADAY BÖLÜNME TABLOSU

Aday Bölünme	tsol	tsağ
1	Age ≤ 30	Age $\in \{31 \text{ to } 40, > 40\}$
2	Age 31 to 40	Age $\in \{\leq 30, > 40\}$
3	Age > 40	Age $\in \{\leq 30, 31 \text{ to } 40\}$
4	Income = high	Income $\in \{\text{low}, \text{medium}\}$
5	Income = medium	Income $\in \{\text{high}, \text{low}\}$
6	Income = low	Income $\in \{\text{medium}, \text{high}\}$
7	Student = yes	Student $\in \{\text{no}\}$
8	Student = no	Student $\in \{\text{yes}\}$
9	Credit_Rating = fair	Credit_Rating $\in \{\text{excellent}\}$
10	Credit_Rating = excellent	Credit_Rating $\in \{\text{fair}\}$

KÖK DÜĞÜM UYUM ÖLÇÜTÜ VE AĞAÇ DALLANMASI

Aday Bölünme	uygunluk ölçütü
1	0.3468
2	0.4081
3	0.612
4	0.1632
5	0.0408
6	0.12
7	0.4285
8	0.4285
9	0.2448
10	0.2448



DÜĞÜMÜ BUYS COMPUTER DATA SET

Müşteri No	AGE	Income	Students	Credit Rank	Buys Computer
1	<=30	high	no	Fair	no
2	<=30	high	no	excellent	no
3	31 to 40	high	no	Fair	yes

low = 2
h = 4
m = 3

B DÜĞÜMÜ BUYS COMPUTER DATA SET

Müşteri No	AGE	Income	Students	Credit Rank	Buys Computer
1	<=30	high	no	Fair	no
2	<=30	high	no	excellent	no
3	31 to 40	high	no	Fair	yes
7	31 to 40	low	yes	excellent	yes
8	<=30	medium	no	Fair	no
9	<=30	low	yes	Fair	yes
11	<=30	medium	yes	excellent	yes
12	31 to 40	medium	no	excellent	yes
13	31 to 40	high	yes	Fair	yes

low = 2
h = 4
m = 3

B DÜĞÜMÜ ADAY BÖLÜNME TABLOSU

Aday Bölünme	t sol	t sağ
1	Age <= 30	Age ∈ {31 to 40}
2	Age = 31 to 40	Age ∈ {<= 30}
3	Income = high	Income ∈ {low, medium}
4	Income = medium	Income ∈ {low, high}
5	Income = low	Income ∈ {medium, high}
6	Student = yes	Student ∈ {no}
7	Student = no	Student ∈ {yes}
8	Credit Rank = Fair	Credit ∈ {excellent}
9	Credit Rank = excellent	Credit ∈ {Fair}

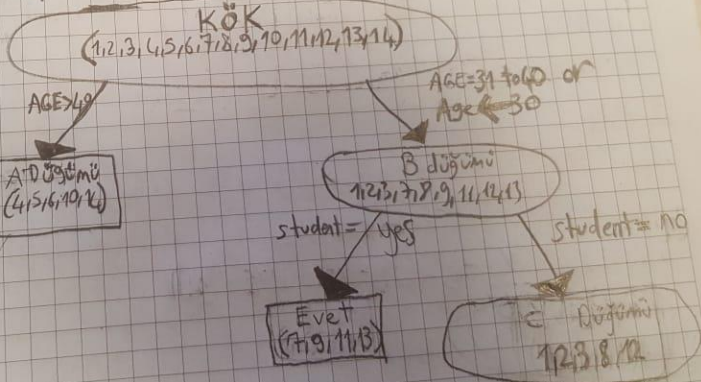
= 35
= 014

2/5
114

B Döğümü Uygun ÖLĞÜTÜ

Aday Bölüm	uygunluk ölçgütü
1	0.5925
2	0.5925
3	0.2962
4	0
5	0.2962
6	0.5925
7	0.5925
8	0.1481
9	0.1481

* 112,67 nolu aday bölünme uygun sayıları aynı geldiğinden bunlardan birini seçeceğim.
* Ben 6 nolu adayı bölünmeyi seçtim.
* Bu yüzden student=Yes olan tüm müşterileri çıkarttım.
Student=Yes olanların hepsinin de sonucu Evet olduğundan Student=Yes ve Sonuç Evetdir.



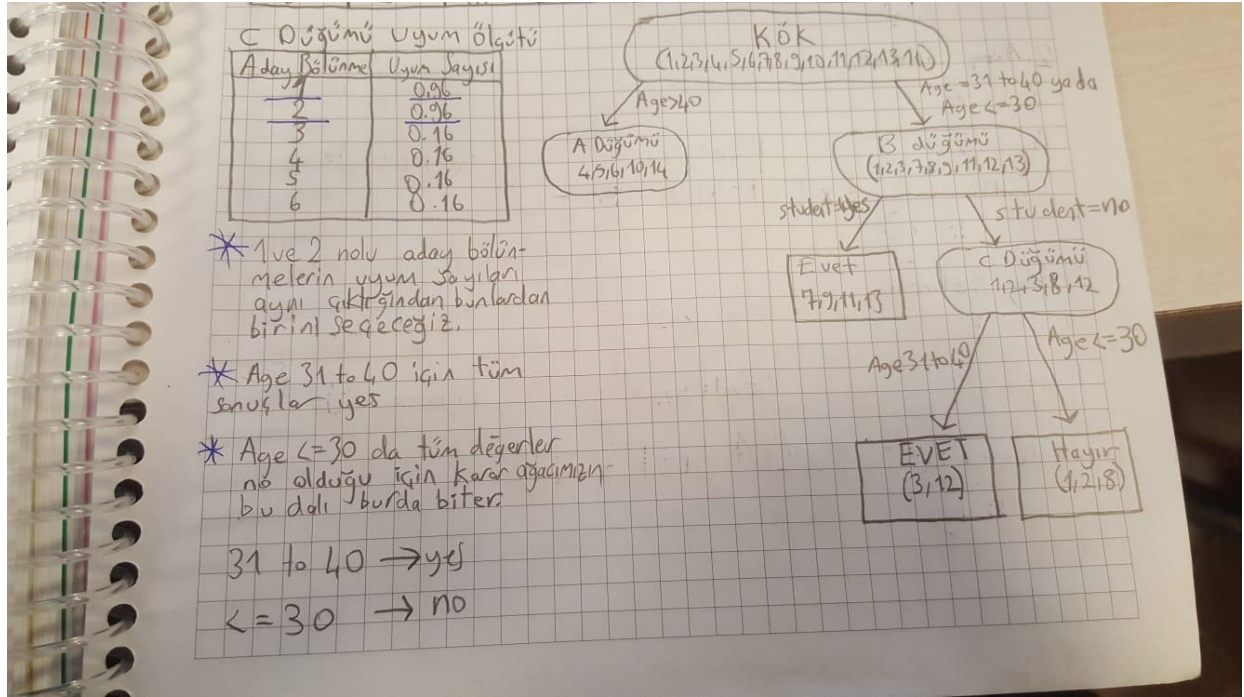
C Döğümü Buys Computer Data Set

Müşteri No	Age	Income	Credit Rank	Buys Computer
1	<=30	high	fair	no
2	<=30	high	excellent	no
3	31 to 40	high	fair	yes
8	<=30	medium	fair	no
12	31 to 40	medium	excellent	yes

C Döğümü ADAY BÖLÜNME TABLOSU

Aday Bölüm	tsol	tsağ
1	Age=31 to 40	Age ∈ <=30
2	Age<30	Age ∈ <30
3	Income=high	Income ∈ {medium}
4	Income=medium	Income ∈ {high}
5	credit=fair	credit ∈ {excellent}
6	credit=excellent	credit ∈ {fair}

112,67



A Döğümü Buys Computer Data Set

Müşteri No	Income	Student	Credit Ranking	Buys Computer
4	medium	no	fair	yes
5	low	yes	fair	yes
6	low	yes	excellent	no
10	medium	yes	fair	yes
14	medium	no	excellent	no

A Döğümü ADAY BÖLÜNME TABLOSU

Aday Bölünme	tsol	tsağ
1	Income = low	Income ∈ med 3
2	Income = medium	Income ∈ low 3
3	student = yes	student ∈ no 3
4	student = no	student ∈ yes 3
5	credit = fair	credit ∈ excellent 3
6	credit = excellent	credit ∈ fair 3

*A DÜĞÜMÜ Uyum Ölçütü Tablosu

Aday	Bölüm	Uyum Ölçütü
1		0.16
2		0.16
3		0.16
4		0.16
5		0.96
6		0.96

* Uyum ölçütü en yüksek değerler 5 ve 6 çıktı

* fair için tüm sonuçlar "EVET"
excellent için tüm sonuçlar "Hayır"
olduğundan dalımız burada biten

- Credit_Ranking=fair → EVET

- Credit_Ranking=excellent → HAYIR

FINAL TREE

