Univerzitet u Zenici

Politehnički fakultet

Odsjek SOFTVERSKO INŽENJERSTVO

Zadaća 12

Poslovna inteligencija

Autor:

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Sadržaj

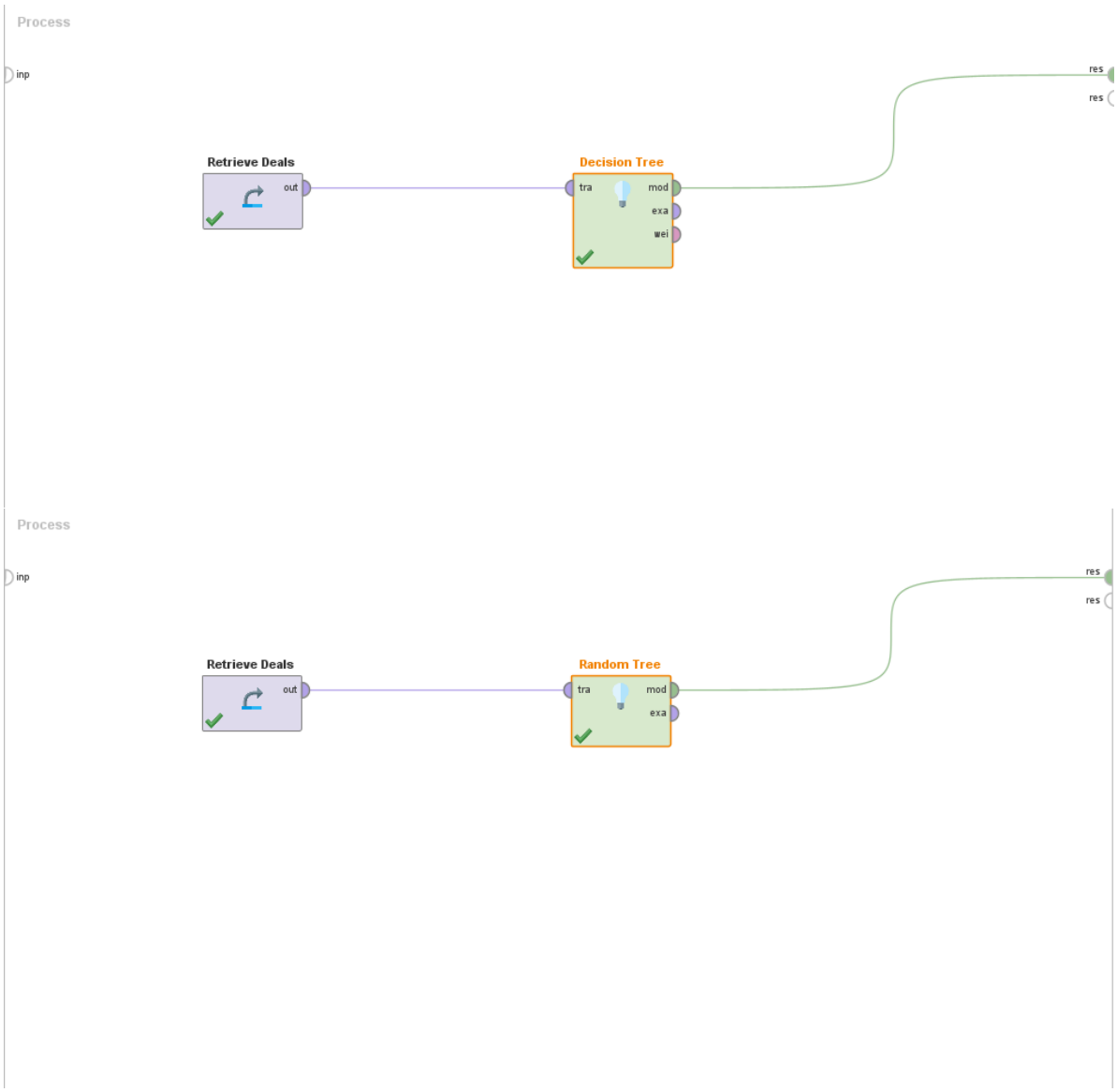
1. Izrada zadatka

1.1 Zadatak 1: Screenshot rapidminer projekta

1.1.1 Obrazloženje

Nad sample skupom podataka iz rapidminer koji nije golf ili iris dataset kreirati dva stabla odlučivanja i uporediti rezultate.

1.1.2 Slika


Process
inp
res
res
Retrieve Deals
out
Decision Tree
tra
mod
exa
wei
Process
inp
res
res
Retrieve Deals
out
Random Tree
tra
mod
exa

1.2 Zadatak 2: Primjer skupa podataka

1.2.1 Obrazloženje

Ovdje je prikazan skup podataka nad kojim se radilo.

1.2.2 Slika

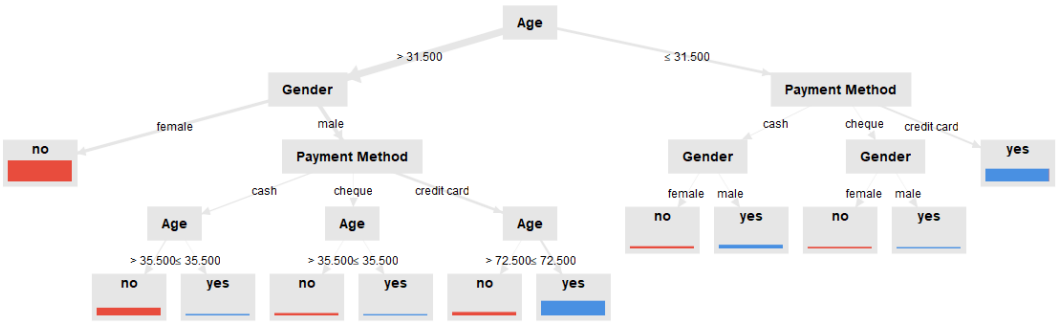
Row No.	Future Cust...	Age	Gender	Payment Me...
1	yes	64	male	credit card
2	yes	35	male	cheque
3	yes	25	female	credit card
4	no	39	female	credit card
5	yes	39	male	credit card
6	no	28	female	cheque
7	yes	21	female	credit card
8	yes	48	male	credit card
9	no	70	female	credit card
10	yes	36	male	credit card
11	yes	22	male	credit card
12	no	53	female	cash
13	yes	27	male	cash
14	yes	40	male	credit card
15	yes	22	male	cash
16	no	49	female	credit card
17	no	24	female	cash
18	yes	45	male	credit card
19	yes	45	male	credit card
20	no	66	female	cash
21	no	82	female	cash
22	no	35	female	credit card
23	yes	17	female	credit card
24	no	52	male	cash
25	no	49	female	credit card

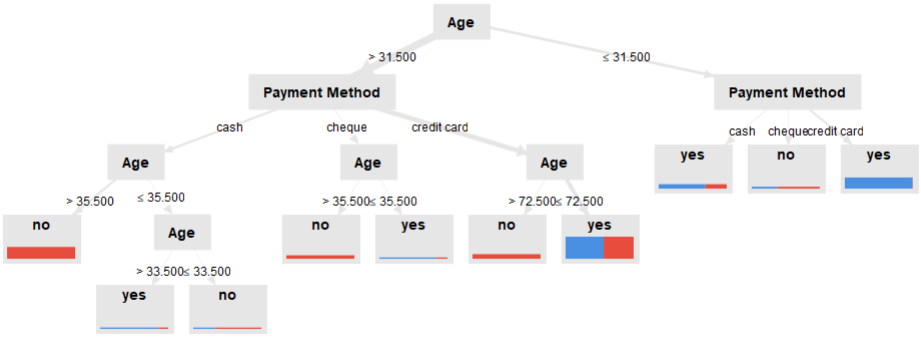
1.3 Zadatak 3: Primjer oba kreirana stabla odlučivanja

1.3.1 Obrazloženje

Ovdje su prikazana stabla odlučivanja koja su kreirana.

1.3.2 Slika





1.4 Zadatak 4: Prikazane predikcije za isti dataset za jedno i drugo stablo

1.4.1 Obrazloženje

Ovdje je prikazana predikcija za dataset

1.4.2 Slika

Tree

```
Age > 31.500
|   Gender = female: no {yes=0, no=324}
|   Gender = male
|   |   Payment Method = cash
|   |   |   Age > 35.500: no {yes=0, no=109}
|   |   |   Age ≤ 35.500: yes {yes=8, no=0}
|   |   Payment Method = cheque
|   |   |   Age > 35.500: no {yes=0, no=23}
|   |   |   Age ≤ 35.500: yes {yes=5, no=0}
|   |   Payment Method = credit card
|   |   |   Age > 72.500: no {yes=0, no=40}
|   |   |   Age ≤ 72.500: yes {yes=221, no=0}
Age ≤ 31.500
|   Payment Method = cash
|   |   Gender = female: no {yes=0, no=20}
|   |   Gender = male: yes {yes=44, no=0}
|   Payment Method = cheque
|   |   Gender = female: no {yes=0, no=10}
|   |   Gender = male: yes {yes=6, no=0}
|   Payment Method = credit card: yes {yes=189, no=1}
```

Tree

```
Age > 31.500
|   Payment Method = cash
|   |   Age > 35.500: no {yes=0, no=203}
|   |   Age ≤ 35.500
|   |   |   Age > 33.500: yes {yes=6, no=1}
|   |   |   Age ≤ 33.500: no {yes=2, no=4}
|   Payment Method = cheque
|   |   Age > 35.500: no {yes=0, no=46}
|   |   Age ≤ 35.500: yes {yes=5, no=1}
|   Payment Method = credit card
|   |   Age > 72.500: no {yes=0, no=67}
|   |   Age ≤ 72.500: yes {yes=221, no=174}
Age ≤ 31.500
|   Payment Method = cash: yes {yes=44, no=20}
|   Payment Method = cheque: no {yes=6, no=10}
|   Payment Method = credit card: yes {yes=189, no=1}
```