Why so late VR

Milla, Viivi and Meeri

Goal

Trains are sometimes late* due to unexpected weather conditions. Our aim is to help predict when commuter trains are likely to be late.

VR's limit of a commuter train being late is 3min

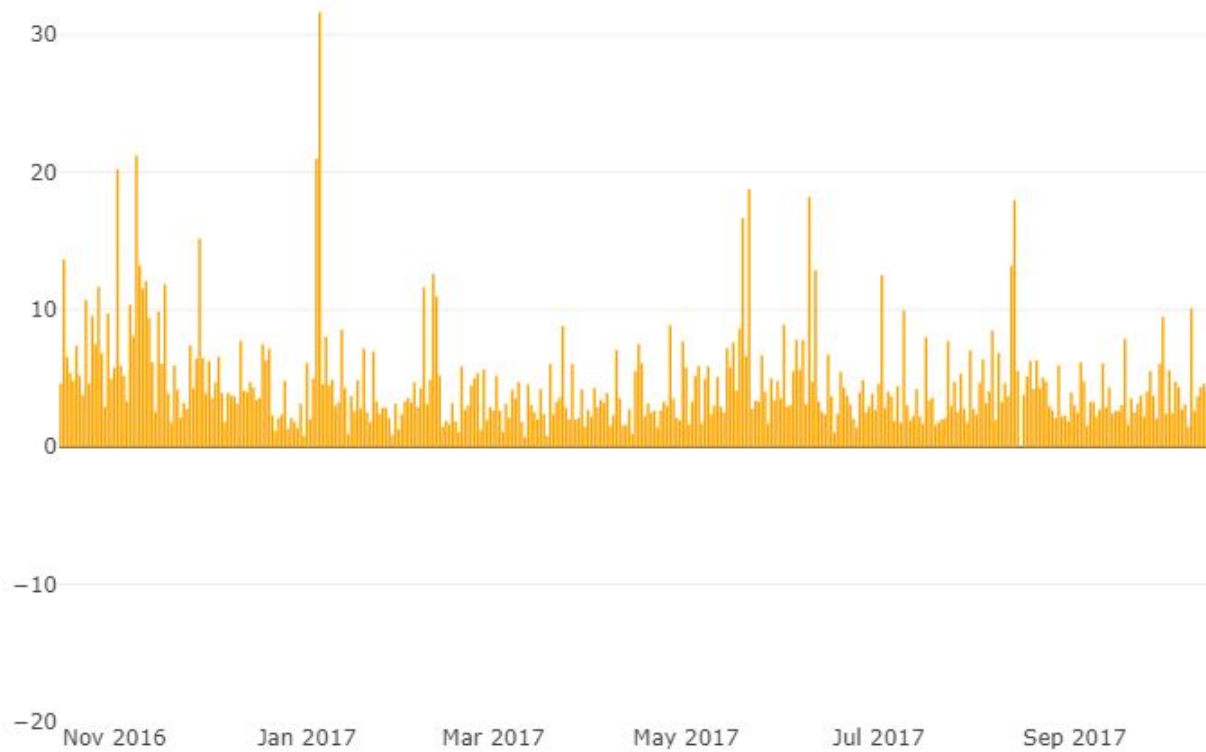# Variables used for model

Train data by VR

- Commuter line ID
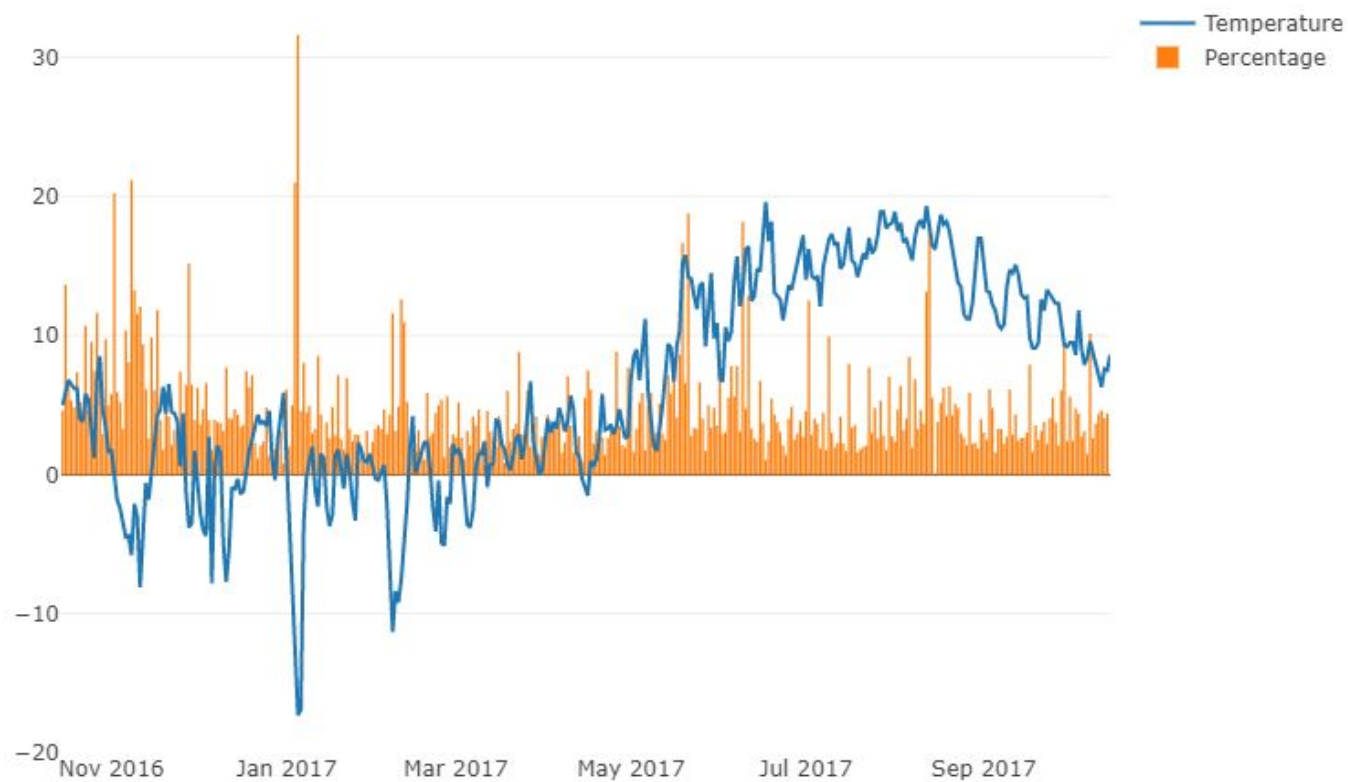- Delays over 3min
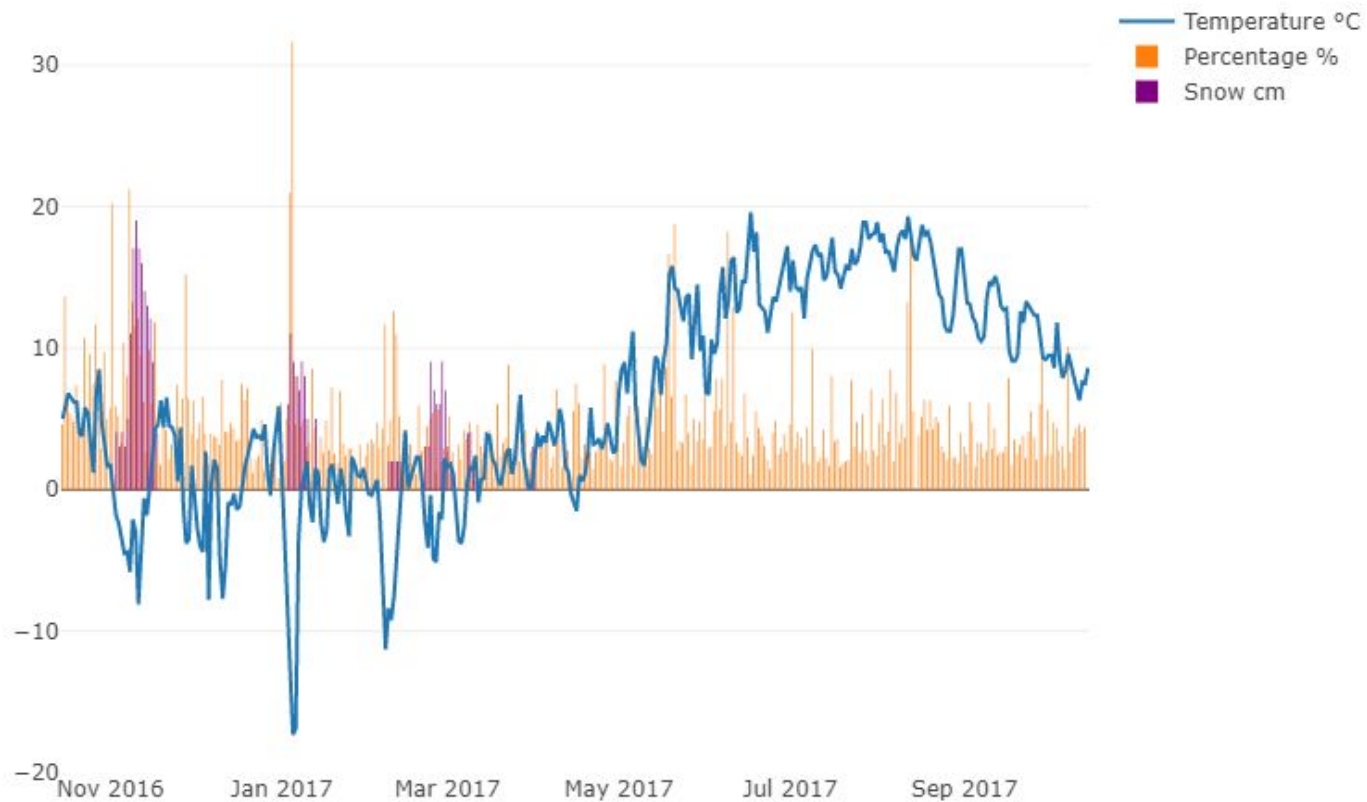- Departure time

Weather data by FMI

- Temperature
- Rain
- Snow

Percentages of all trains being late

Percentages of all trains being late and temperature

Percentages of all trains being late

Legend:
- Temperature °C
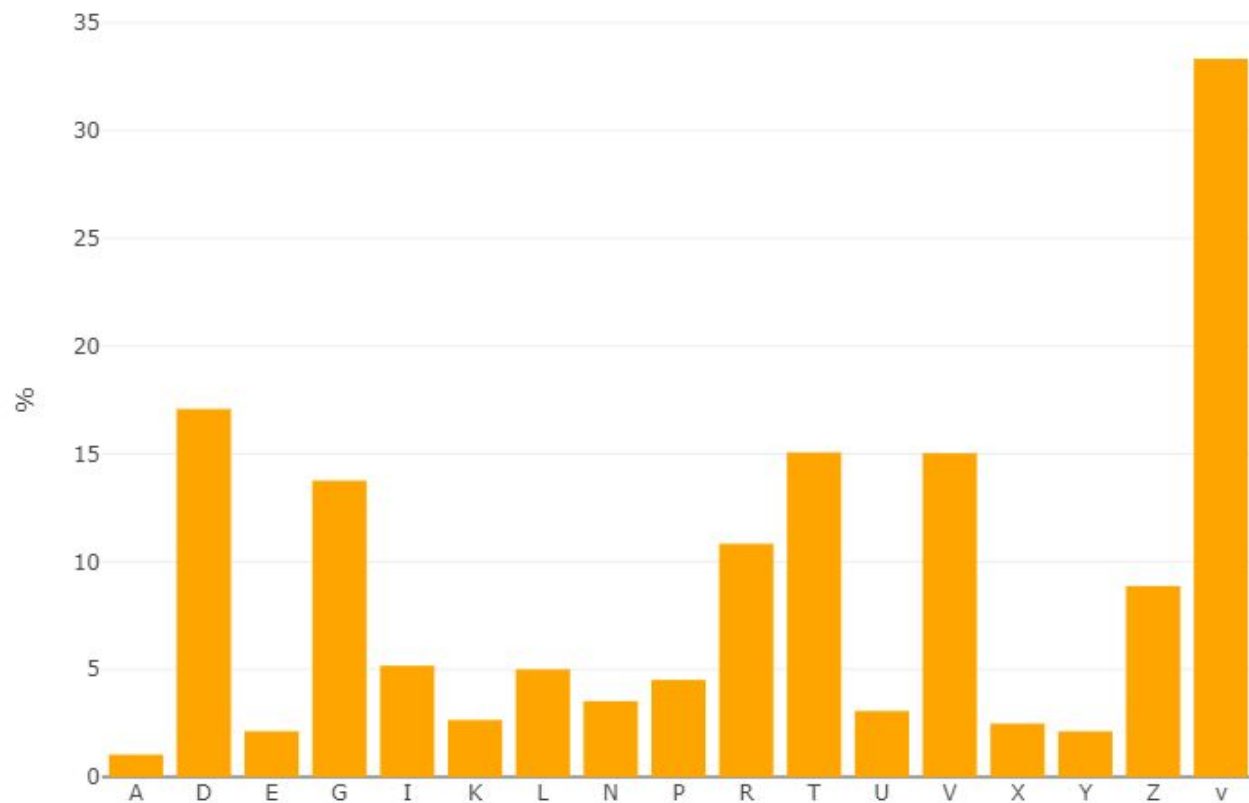- Percentage %
- Snow cm

Average delays of commuter trains

Percentages of delayed departures by commuter line id

Results

Yes/No prediction of which commuter train lines have more than 5% of delays on 26.10.2017

Our prediction for 26.10.2017

Train Type	> 5%(Y/N)
A	No
D	Yes
E	No
G	Yes
I	No
K	No
L	No
N	No
P	No
R	Yes
T	Yes
U	No
X	No
Y	No
Z	Yes

Real data (checked 15:30)

Bolded percentages are correct predictions

Train Type	Delays over 3 min %
A	**0,1**
D	**50**
E	11
G	**54**
I	**2,4**
K	**2,5**
L	19
N	**4**
P	**0,9**
R	**39**
T	**48**
U	8
X	**0**
Y	25
Z	**33**