

## **APP-FREE CAR HAILING**

hackaTUM 2018



### HOW CAN YOU HAIL A SELF-DRIVING CAR **WITHOUT USING AN APP?**

- Consider elderly, those without a smartphone, or those that don't want to install an app.
- >> Find a creative solution that might actually work!
  - >> How does the car know who to pick up?
  - >> How does the car know where to go?
  - What sensor(s) does this car use?
  - Where does the car stop? On the road? Can it find a safe parking spot?

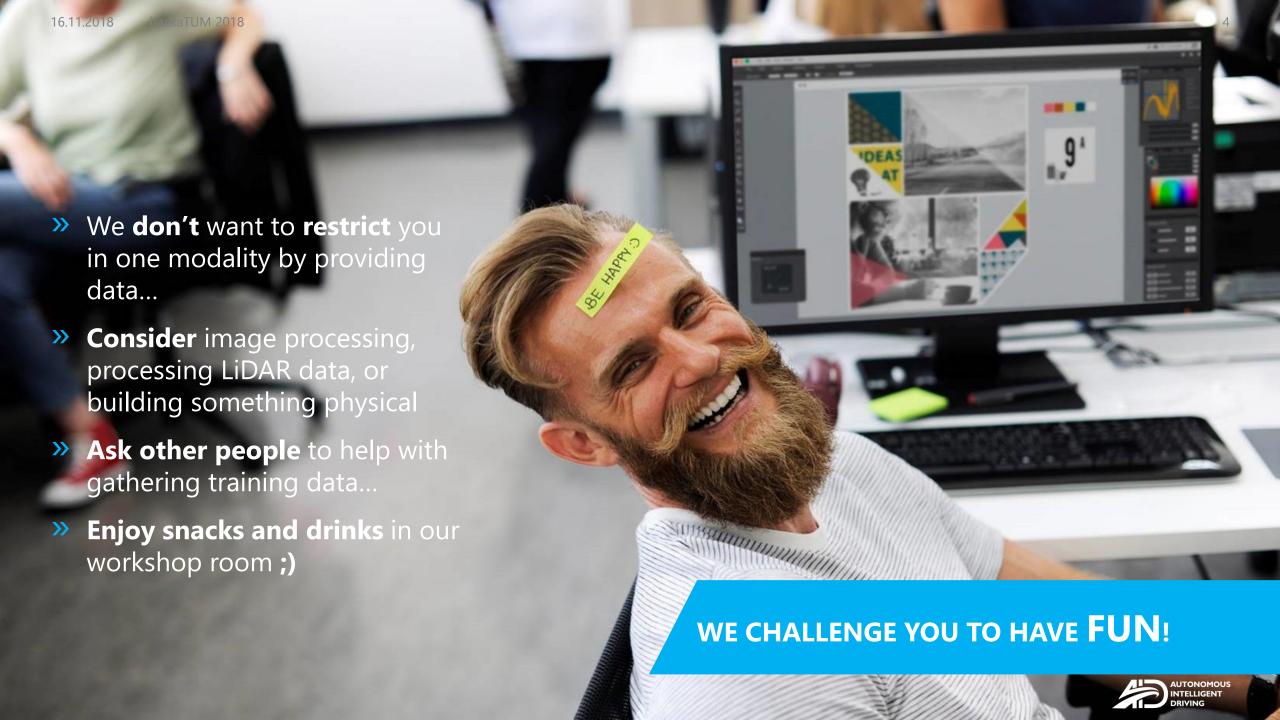


### WE CHALLENGE YOU TO BE CREATIVE!

- » Do whatever you can do best!
- Think about all possible modalities: computer vision, voice recognition, physical buttons?
- Take into account how people without a smartphone would want to get a self-driving taxi









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### **AID MENTORS**



FELIX FRIEDMANN
TECH LEAD MACHINE
LEARNING



**FRANCESCO FERRONI**MACHINE LEARNING



NASTARAN MATTES
AGILE COACH



**ROLAND MEERTENS**MACHINE LEARNING



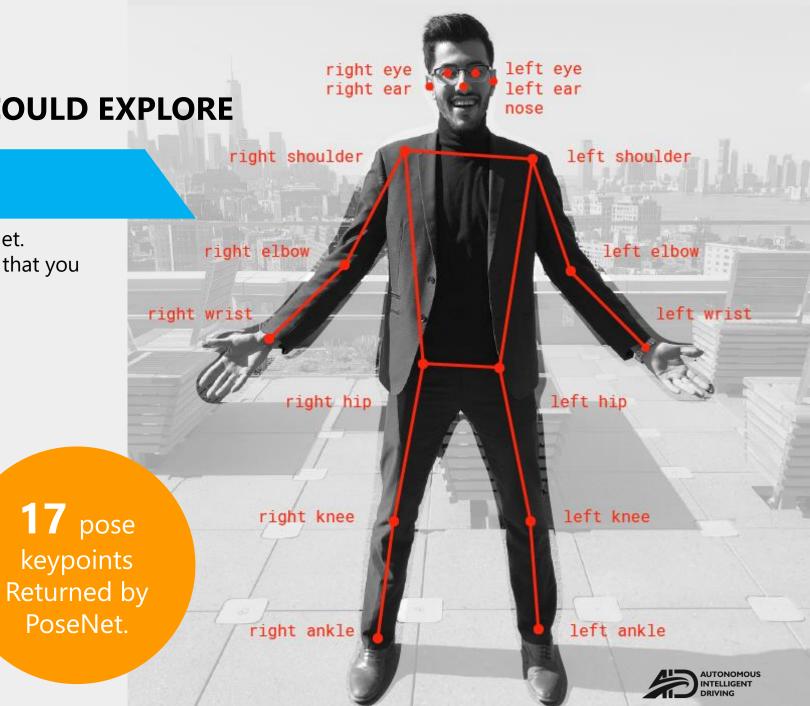
**DMITRII KHIZBULLIN**PERCEPTION INTERFACE



#### **EXAMPLES OF WHAT YOU COULD EXPLORE**

# USING NEURAL NETWORKS, AS THEY ARE PRETTY COOL

Sestimate the poses of humans using PoseNet.
A pretrained neural network in TensorFlow that you can use with Javascript

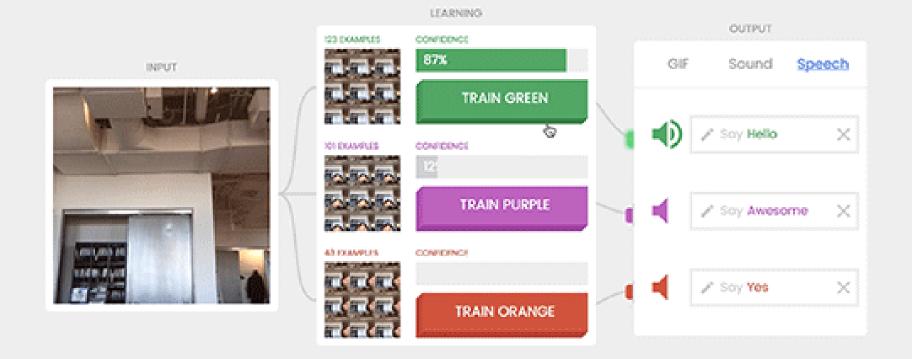


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#### **EXAMPLES OF WHAT YOU COULD EXPLORE**

# USING NEURAL NETWORKS, AS THEY ARE PRETTY COOL

>> Use teachable machine to explore different "signs": https://teachablemachine.withgoogle.com/



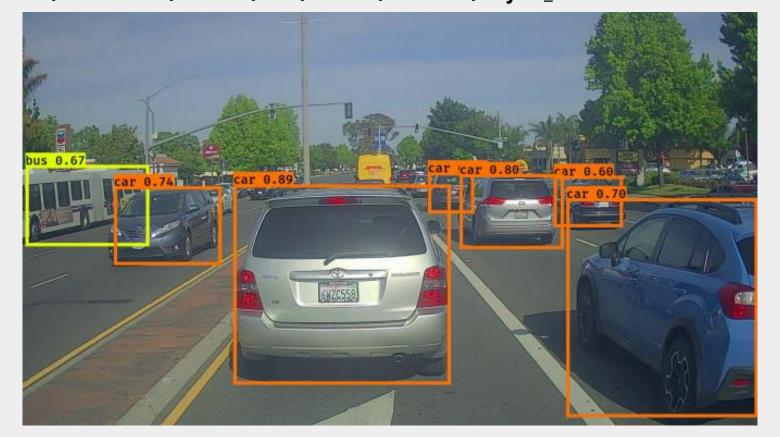


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#### **EXAMPLES OF WHAT YOU COULD EXPLORE**

# USING NEURAL NETWORKS, AS THEY ARE PRETTY COOL

>>> Train your own object detector with the TensorFlow object detection
API: https://github.com/tensorflow/models/tree/master/research/object\_detection





### **OUR PRIZES**

## For the winners' team:

Each member of the team can choose a conference of their choice in Europe!

We pay travel, entrance fee, and hotel!

Feel free to ask us what conference **WE would go to**;)

## For the runner-up:

Amazon voucher of 100€ for each member of the team!

