

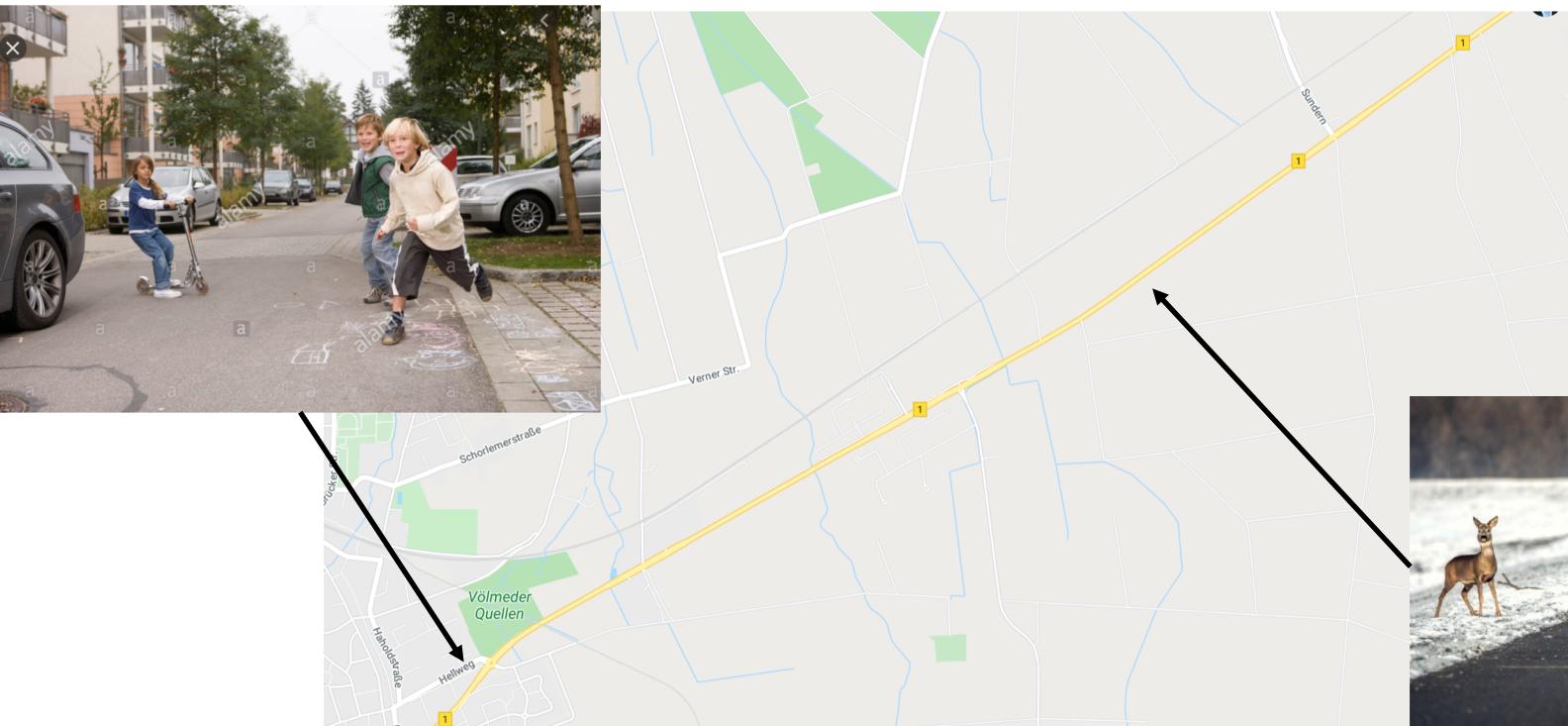
Deep Learning 2 – Seminar topics

► Seminar topics – Niklas Heiber

Developing a tool for detecting objects with geolocation

The idea is to recognize objects/animals/plants/people and save it with the geographic coordinates and the time (timestamp).

This can be used to improve autonomous driving and driving assistants.



Driver Drowsiness detection



Seminar topics– Jonas Gerken

Detect user emotions based on social networks

Get user likes;

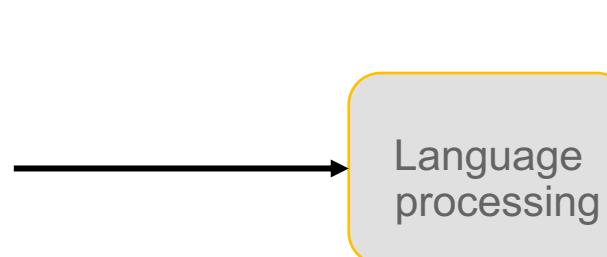
Get post tags/descriptions;

Use natural language processing to detect if the user is happy, sad or neutral;

Set of hashtags from liked posts



| #happy #me ...
#happygirl #glücklich #nature #walk
#walkingthedogs #spring
#springtime #frühling
#strawberryblonde #color #haircolor
#redhair #erdbeerblond #moonchild
#fiery #aries #ariesgirl #polishgirl
#pure #sunshine #goldenhour
#sunny #perfectday #potd #newhair
#yorkies #puppies
#dogsofinstagram

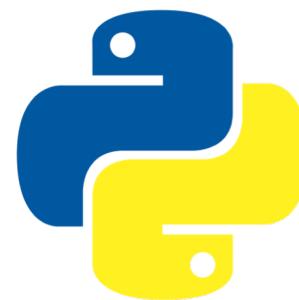


Steps:

- Research about the topic
 - Research of related works
 - Define requirements
 - Create a concept
 - Implement a use
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- All projects should be hosted in Github repositories
 - Documentation of the project
 - How to install
 - Requirements
 - <input> and <output>

► Technologies that can help you

AI Supercomputers: IBM Watson, Google DeepMind, Google Colab ...



► Organization - Paper

- Use latex and bibtex
- See ieee template at: https://www.ieee.org/content/dam/ieee-org/ieee/web/org/pubs/conference-latex-template_10-17-19.zip
- 5 – 7 pages
- Apply the methods and techniques from scientific writing
- Use citavi or Zotero for managing your references
- Write for each related reference a short note of how it is related to your seminar topic – the note is part of your bibtex management tool and/or an extra bibtex entry.