**Title:** Behaviour modeling and prediction in varying traffic scenarios

**Level:** Bachelor/Master

**Keywords:**
Behaviour modeling and prediction, autonomous driving, Lyft dataset

**Supervisor:** Naveed Muhammad, **Co-supervisor:** Yar Muhammad

**Skills required:**
Strong programming skills, experience with deep learning and large datasets

**Description:**
As drivers, humans instinctively take into account factors such as location speed, acceleration etc. of other vehicles in order to predict the future behaviour and devise a suitable, safe and efficient manoeuvre while in traffic. This is not trivial for an autonomous vehicle. In this project you will work with Lyfy motion prediction dataset and investigate filtering and machine-learning based techniques for modeling and prediction of agent behaviour in traffic.

**Some relevant literature:**


