AmanullahTariq O in X ≧

EDUCATION

Albert-Ludwigs-Universitt Freiburg Masters of Science in Computer Science - Machine Learning University Of Karachi Bachelor of Science in Computer Science MASTER THESIS • Model pruning in convolutional encoder-decoder network During my master thesis, I worked in the field of deep learning with the computer vision group of Prof. Thomas Brox, under the direct supervision of Prof. Matthias Teschner and Gabriel Leivas Oliveira. We worked on reducing the number of parameters and runtime of the state-of-the-art approaches for image classification and segmentation without compromising on the accuracy. In some cases, we reduced the size of the network by 50% while maintaining the accuracy of the network. segmentation machine learning python tensor-flow torch deep learning opency EXPERIENCE • Research Assistant - Fraunhofer IPM, Germany (Sept 2017 - Feb 2018) Used deep learning and machine learning techniques for semantic segmentation in 3D point cloud and 2D images using Caffe and python. python data visualization matplotlib seaborn pil opency • Student - Master Project - Audi AG, Germany (Oct 2015 - Mar 2016) Participated in Audi Autonomous Driving Cup 2016 in Ingolstadt and got 6th position in Germany, applied deep learning techniques for lane tracking, crossroad detection and traffic sign detection on the

data gathered through the ultrasonic sensor, camera and depth sensor.

c++ caffe opencv machine learning computer vision qt	machine learning computer vision qt opend	ncv
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Other Projects

• Parking Space Detection

Worked on detecting the Parking Space for the car given 2D image from the Google maps and 3D point Cloud data of the current environment.

python c++ qt opency machine learning

• Point Of Sale System - Steepminds

Developed my own software for Point of Sale and it is one of our widely used products, more than 10 customers. It gives our customers the flexibility to manage their daily sales, get monthly and daily reports, manage accounts and furthermore manage different sales mediums including credit cards, cash in hand and others.

reporting sql mvc marketing azure

HONORS AND AWARDS

- First prize in Hackathon Energy Freiburg 2017.
- First position at Hackathon Newcomer Freiburg 2016.
- Presented our idea to save electricity using machine learning at Green Summer School 2017 Konstanz.
- Participated at Recoding Aviation Berlin 2017.

Freiburg, Germany March 2018

Karachi, Pakistan Dec 2011