

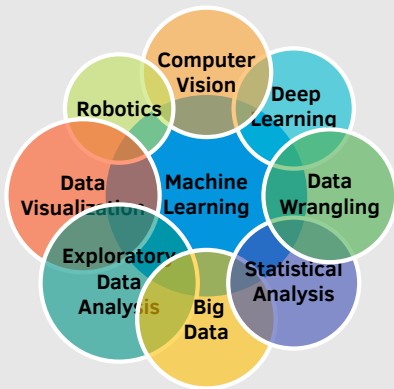
Ahmed Mohamed

Software Engineer
Computer Vision


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Skills


Overview



Tools

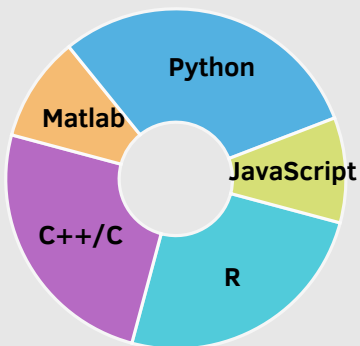
 TensorFlow PyTorch Keras
NLTK Pandas Numpy

 MySQL MongoDB

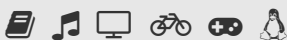
 Matplotlib Seaborn gg-plot Plotly Tableau \LaTeX

 git, ROS, Hadoop, Spark

Programming



Interests



Experience

2019 - 2020 **Electrical Technical Director**

[Cairo Uni Racing Team](#)

- Along side a team, worked on designing and implementing the state-of-the-art software architecture of a self driving vehicle.
- Implemented a deep neural network for object detection.
- Implemented ResNet to detect key points in cone batches.
- Implemented simultaneous localization and mapping algorithms for the vehicle.
- Implemented path planning algorithms.
- Integrated all software modules through a ROS sekeleton.
- Simulated and visulized the full functioning driverless vehicle.
- Managed a team of 30 members to design and simulate the electrical system of a formula style electric vehicle.
- **tools:** Python, PyTorch, ROS, rviz, git.

2018 - 2019 **Embedded Systems Team Head**

[Cairo Uni Racing Team](#)

- Along side a team, designed, simulated and manufactured an formula style electric vehicle.
- Using ARM controllers, built an embedded system of several electronic control units connected through CAN protocol.
- Managed a team of seven members to work together under a V-model of development.
- Gained deep and intensive knowledge and practical experience in embedded systems and automotives.
- **tools:** C++, C, git, ARM controllers, CAN protocol.

2018 **Software Developer Intern**

[Egyptian Ambulance Organization](#)

- Development of Automated Surgery Waiting List for Egyptian Public Hospitals.
- Development of Administrative Work Bench for Hospital and Healthcare Ministry of Egypt.
- Developed a Website to Record and Track Medical Records for Egyptian Pilgrims in Government Pilgrimage Programs.
- System is Submitted for Production and Deployment in September 26th, 2018.
- The internship was a four months one, from May to September 2018.
- **tools:** Laravel, HTML, CSS, PHP, MySQL

Education

2015 - 2020 **Bachelor of Science**

[Cairo University, Faculty of Engineering](#)

Major in Computer Engineering, GPA: 3.0

Projects

2019 - ... **AutoRace**

[GitHub Repo](#)

- Implementation of a state-of-the-art Robotics Software pipeline of an autonomous racing vehicle including Perception from monocular and stereo cameras, Localization, Mapping, and Motion Control.

2020 **Go Board Game**

[GitHub Repo](#)

- AI agent for Go board game based on Deepmind's AlphaGoZero.