

# FUTURE JOB ROLES

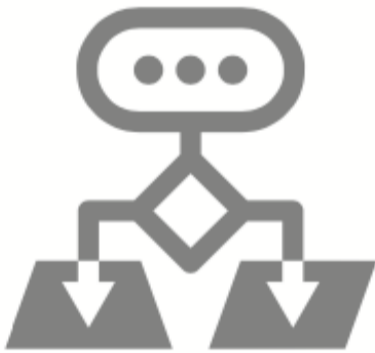


**ENGINEERING AND RESEARCH & DEVELOPMENT**

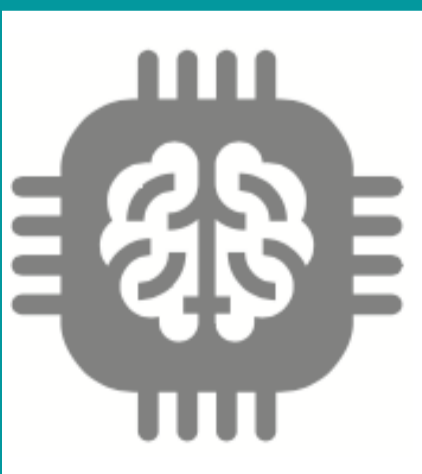
**MACHINE LEARNING EXPERT**



The last years have witnessed a fast growth in the field of self-driving vehicles, mainly backed up by advances in the area of machine learning. As vehicles become increasingly complex, it is virtually impossible for car manufacturers to model how each component of the system should behave at any given time. Technology is now at a point where machines can be configured to learn from observation, just like humans. In particular, machine learning has the power to produce vehicles with the ability to act without being explicitly programmed.



The use of machine learning in the automotive sector has the potential to improve almost every aspect of the car manufacturing process. One of the main tasks of machine learning in driverless vehicles is the prediction of possible changes, not only inside the vehicle but also in its surroundings, though object detection, recognition and prediction of movements, to provide a safer and more pleasant driving experience.



The emerging machine learning expert job role requires the use of expert knowledge and best practice techniques to support the development of successful machine learning models. These specialists are endlessly learning and constantly researching new trends and techniques to identify and develop solutions for the automotive industry. In addition, it is their responsibility to constantly seek improvements in performance and to assert that all production tasks operate under the defined performance and scheduling conditions.

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