Sweden

Thesis: Automated Fault Tracing Tool

Group Trucks Technology

Position Description

Background
Today there is a long lead time and very much manual work to first identify if we have an issue in the market with our produced vehicles and after that locate what cause the issue.
The idea with this work is to create a tool that automates some of the work to identify if we have an issue and support the fault tracing by compiling relevant data to the persons doing the fault tracing.

Content
Create a scalable system that can include different sources to judge if we have an issue in the market. Sources can be fault codes, telematics data from customer vehicles, claim texts etc. For the thesis work, it is sufficient if the scope is limited to use fault codes and telematics data from customer vehicles.

Create a scalable system that identify and compile information that can be valuable when performing the fault tracing. Source of data can be part number database, telematics data from customer vehicles, claim text, etc. For the thesis work, it is sufficient if the scope is limited to use part number database and telematics data from customer vehicles.

It is expected that machine learning algorithms are used as core of the systems.

Create an easy to use GUI that summarize the findings bot on an initial high level but also that support deeper analysis.

Suitable Background
Candidates should be in the final year of their Master's studies. Suitable masters' programmers include Data Science & AI, Systems Control and Mechatronics, Software Engineering, Complex adaptive systems or Applied Physics. Candidates with equivalent background from other programs will also be considered. Preferably, at least one project member should have a strong background in machine learning.

Thesis Level: Master
Language: English
Starting date: January 2021
Number of students: 2

For any further details kindly contact

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About us
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State/Province

Västra Götaland

City/Town

Göteborg

Functional Area

Technology

Employment/Assignment Type

Thesis

Last application date

1-Dec 2020