SSAB is improving safety at work with the help of AI

SSAB has participated in Business Finland's (former Tekes) and analytics company Sofor's AI project. The project has combined SSAB's occupational safety data with AI to enable artificial intelligence to be utilized to analyze and predict working capacity. The aim has been to find the hidden reasons behind workplace accidents in SSAB's operations. This project is the first of its kind in Finland.

"We aim to become the world's safest steel company. We strive for zero tolerance for all workplace accidents and occupational diseases. By now, we have already used the easy safety measures, such as the requirement to wear a helmet, so now we wanted to go a step further. AI enables us to find the hidden reasons causing accidents," says **Harri Leppänen**, Head of Environment, Health & Safety at SSAB.

SSAB employs around 15,000 people in approximately 50 countries. Using analytics enriched by the tireless AI, as well as predicting situations leading to accidents are invaluable aids in decreasing the accident frequency rate.

"When combining occupational safety data with AI, the essential thing is that tasks which would be practically impossible for humans are delegated to the software. An application will be able to mine and analyze large amounts of data tirelessly and quickly and to identify previous, similar accidents. It combines phenomena, it can be used to find accident risks and correlations, for example, the most accident-prone places at a factory. It also allows for new viewpoints in basic reporting, such as at what time of day or which day of the week accident proneness is at its greatest," says **Kirsti Laurila**, Head of Analytics at Sofor.

Laurila stresses that where a human can over time find, for example, the crane and forklift accidents from a mass of data, NLP (Natural Language Processing) can be used to analyze free text and to find common factors in accidents.

The first phase of the project has focused on SSAB's operations in Finland and Poland. However, globally-operating SSAB uses 24 different working languages. AI can translate and combine all languages in the analysis – in this way the entire contents could be utilized.

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SSAB is a global steel company operating in the Nordics and the United States. The company's value-added products and services have been developed in close cooperation with customers. Our goal is a stronger, lighter and more durable world. SSAB employs people in over 50 countries and has production plants in Sweden, Finland and the United States. The company is listed on Nasdaq Stockholm and has a secondary listing on Nasdaq Helsinki. www.ssab.com.
You can also find us on social media: Facebook, Instagram, LinkedIn, Twitter and YouTube.

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