micromine

Micromine Artificial Intelligence Technology Transparency Statement

Global

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Definitions

Grade Copilot	A feature of Micromine Origin.
Micromine Nexus	A digital platform designed for the secure storage and processing of project data, which integrates directly with Micromine products.
Micromine Origin	An exploration and geological modelling software.

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Transparency Statement

At Micromine, we are committed to delivering high-quality innovative software solutions for the mining sector.

Following the advances achieved in the field of Artificial Intelligence (AI), Micromine sees itself as a company that must apply AI techniques to solve problems in mining and deliver this new technology in a form of software products to Micromine customers.

Purpose

The purpose of this Statement is to provide a high level of transparency and clarity to Micromine customers, stakeholders and regulators about Micromine-developed AI technology, to better understand how a Micromine AI system was created and how it makes decisions to be able to assess it before adoption.

The transparency statement also aims to provide insights into Micromine's AI governance, the processes, standards and guardrails that help to ensure Micromine AI systems are safe and ethical.

Micromine Grade Copilot

Micromine Grade Copilot (GCP) is a technology relying on a computational service hosted by Micromine in the Microsoft Azure cloud on the Micromine Nexus Cloud Platform (Nexus). As part of the GCP Neural Network Model (Model) training process, user's data are temporarily uploaded to Nexus to perform training of the Model.

On completion of the training process, the Model is downloaded to the user's computer. All data uploaded to the cloud to train the Model and the trained Model are deleted from the temporary Nexus storage. Under no circumstances does Micromine permanently store the user's input data nor the resulting Model and specifically:

- The original data (the real-world coordinates, the grade data and rock codes) never leave the user's computer
- Prior to uploading the data to Nexus, the data are transformed through the process of data normalisation, obfuscating the data in the process
- The information about the data transformation never leaves the user's computer. Only the user can perform back-transformation of the Model data into real-world data
- The transmitted data and messaging between Micromine Origin and Nexus are encrypted using industry standard Transport Layer Security
- Once the Model training has been completed, the Model is temporarily stored until either:

    - The Model is downloaded to the user's computer by Micromine Origin. This is only possible from the same Micromine Origin computer that was logged into the Nexus account that was used to launch the Model training process
    - The training request is cancelled by the user; or
    - Where the user does not download the trained Model within three days following the completion of Model training
- For service quality monitoring purposes, only, Micromine retains information on the volume of data submitted for Model training, the start and end times of the Model training process, and the Micromine Origin licence number used to launch the Model training process
- Micromine does not retain any copy of the data in its original nor normalised form
- Micromine does not retain any information that the Model learnt from the data
- Each GCP Model training run is completely independent of any other models trained in the past and starts from an uninitialized starting position, using only the user's own data
- The technique referred to in the field of Artificial Intelligence as Transfer Learning (using a pretrained model as a starting point for additional training with user's data), is not utilised during the GCP Model training