Ishango.ai

Elder Research Case Study

"The value we are hoping to get is in their in-process work on a cutting-edge neural network implementation in Python. While the final product isn't deliverable yet, they've made visible steps toward success, and in the modeling phase they've done faster than I expected. It looks as though we will finish this fellowship with an example of the model we can use to build it into pipelines."

Jericho McLeod

Data Scientist at Elder Research

The Client

ELDER RESEARCH
DATA SCIENCE · AI · MACHINE LEARNING

Elder Research, Inc. (ERI) is a machine learning solutions provider with 26 years of experience delivering high performing predictive modelling solutions into complex client deployment environments. They hand-craft innovative analytics solutions that inform decisions, deliver value, and transform organizations

Project Brief

Developing an unsupervised machine learning model to predict when parts are likely to fail within a hydroelectric power plant. Automation of these methods and raising alerts to clients, will help to better schedule timely maintenance.

Project Outcome

The key outcome of this project was the ability to validate and monitor data from 6 turbines in real-time, using the Python programming language on the Amazon Web Services (AWS) cloud infrastructure. Overall, this project helped to reduce costs by identifying and predicting potential instrument failure in a more efficient and cost-effective way.