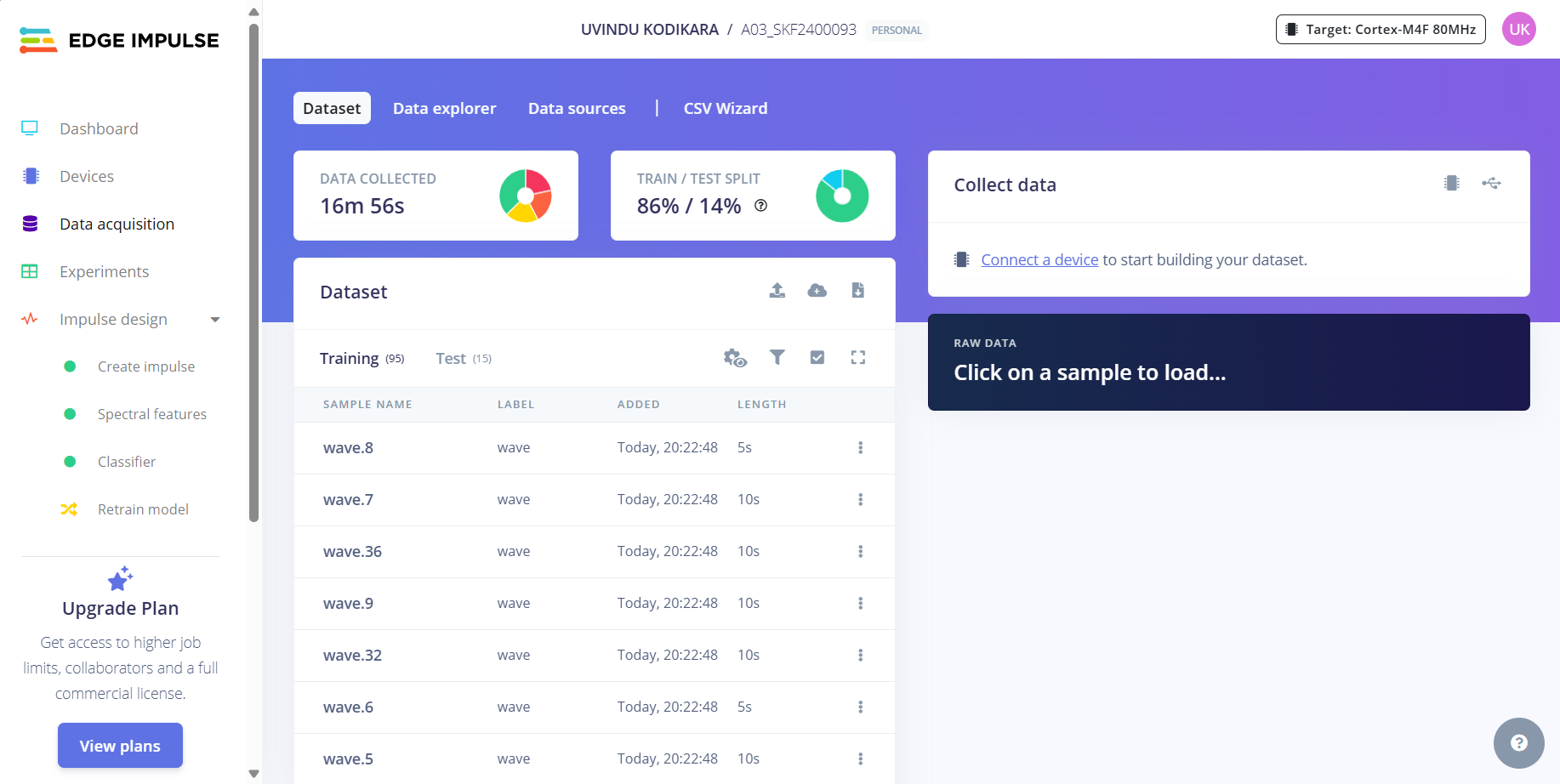
Assignment 03

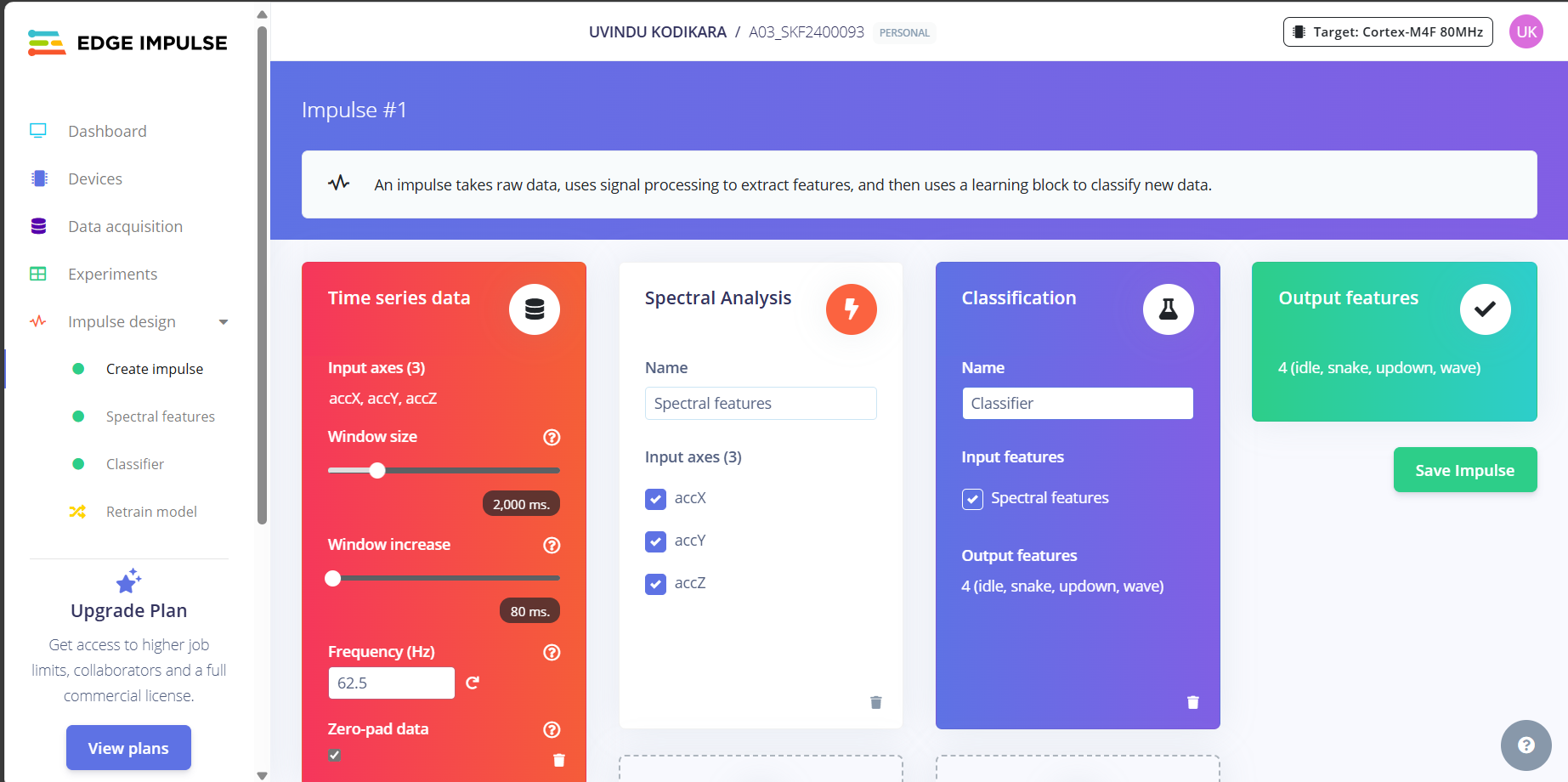
Kodikara U. S. S. - SKF2400093

# Task 01

In Updown, the movement occurs along the Z axis, so accZ fluctuates while accX and accY stay mostly steady. Conversely, in Snake, movement along the Z axis is constant, with activity in the X and Y directions. As a result, accZ remains largely stable, while accX and accY show variation.



# Task 02

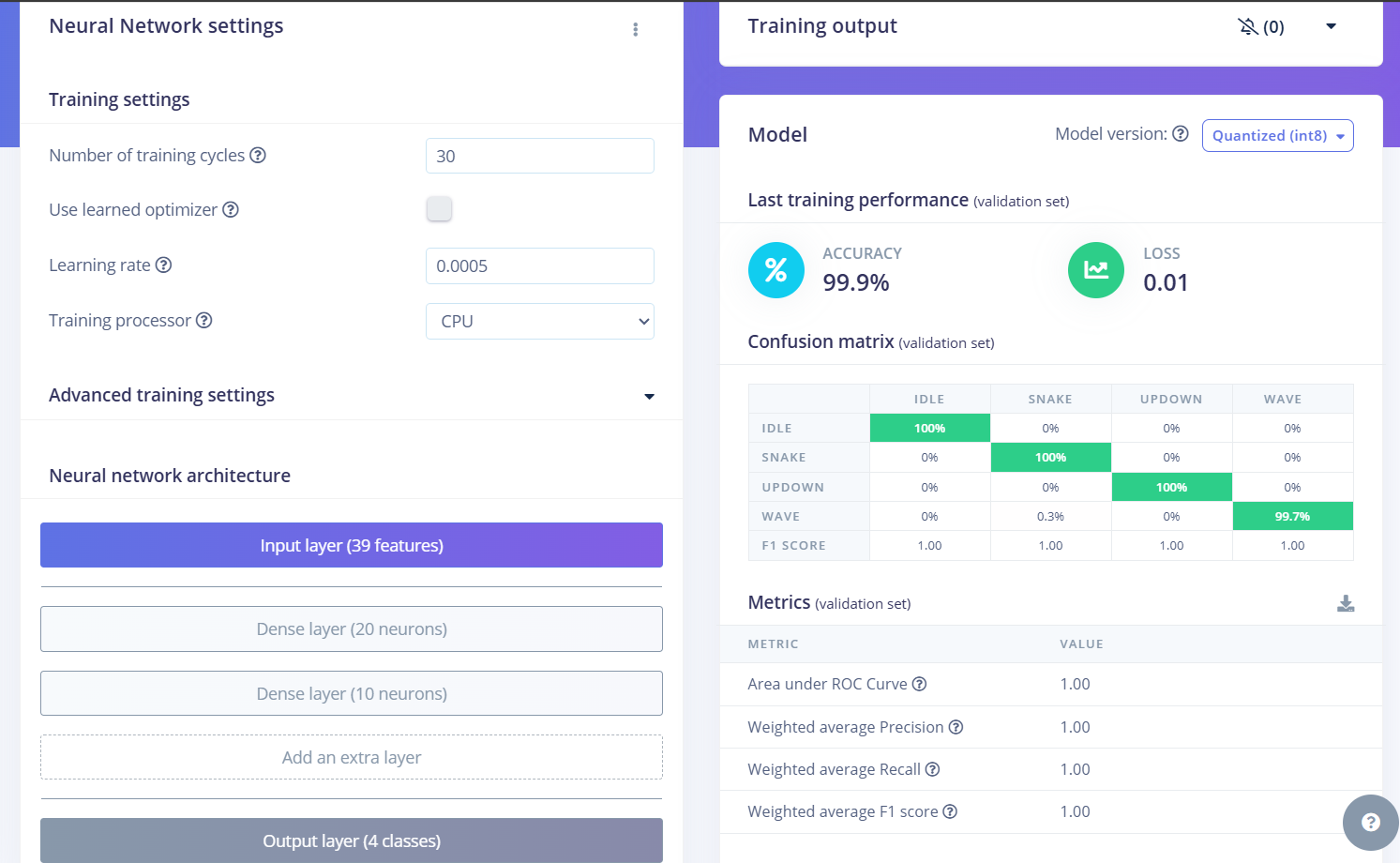


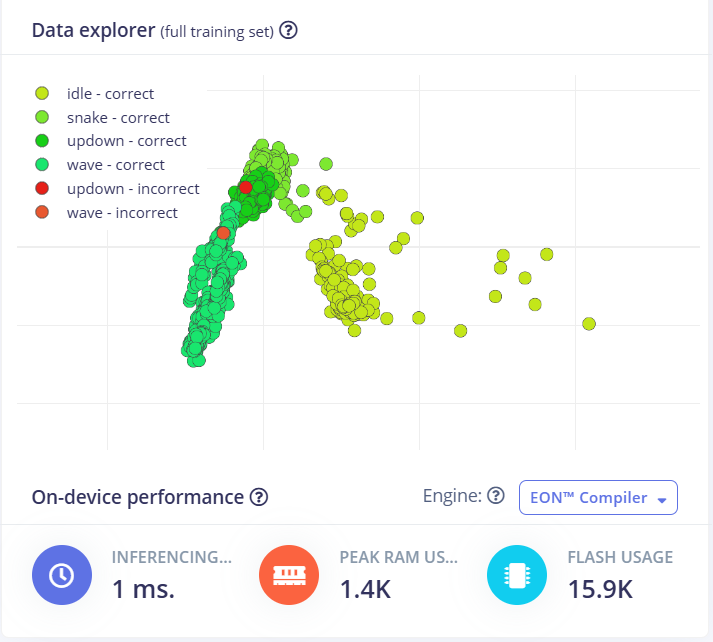
# Task 03A screenshot of a computer Description automatically generatedA screenshot of a phone Description automatically generatedA screenshot of a computer Description automatically generated

A screenshot of a computer

Description automatically generated

# Task 04





A screenshot of a test

Description automatically generated

A graph of different colored dots

Description automatically generated

A screenshot of a data analysis

Description automatically generated

* A learning rate of 0.0005 allows for gradual and stable learning, preventing large shifts in weight adjustments.
* 30 training cycles provide the model with sufficient time to learn while minimizing computational demands.

# Task 05

A screenshot of a calendar

Description automatically generated