



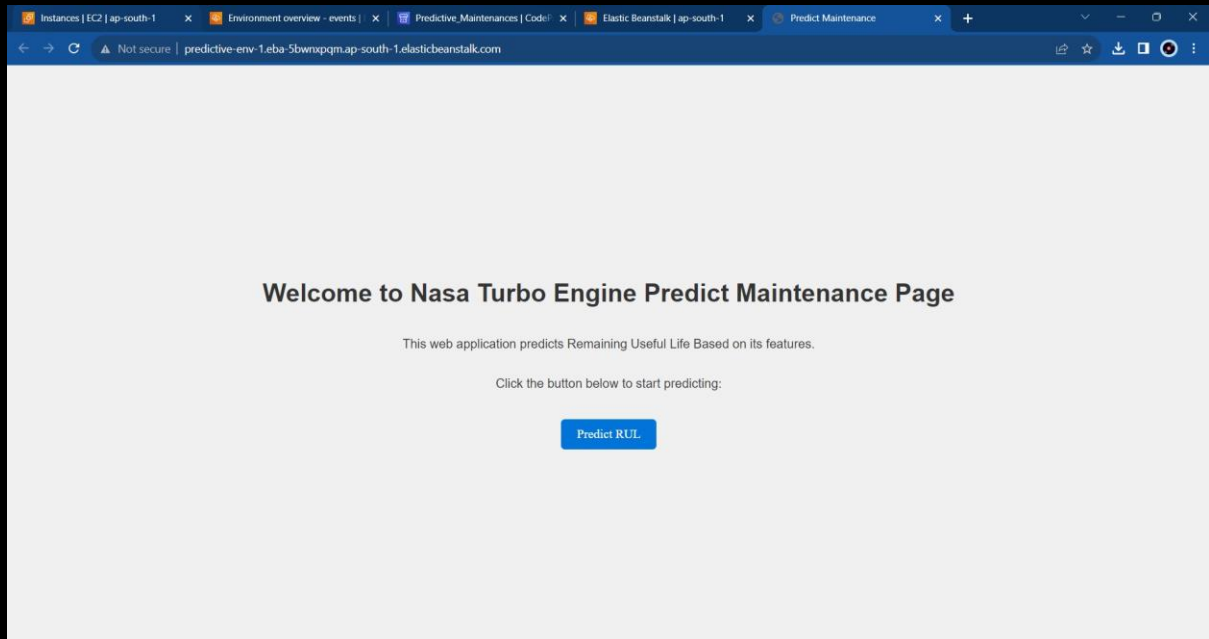
Predictive Maintenance (WFD)

Wire Frame Document

Mohammad Iqbal
Roma Chauhan
Varsha Mahato
Ayush Gandhi

Homepage

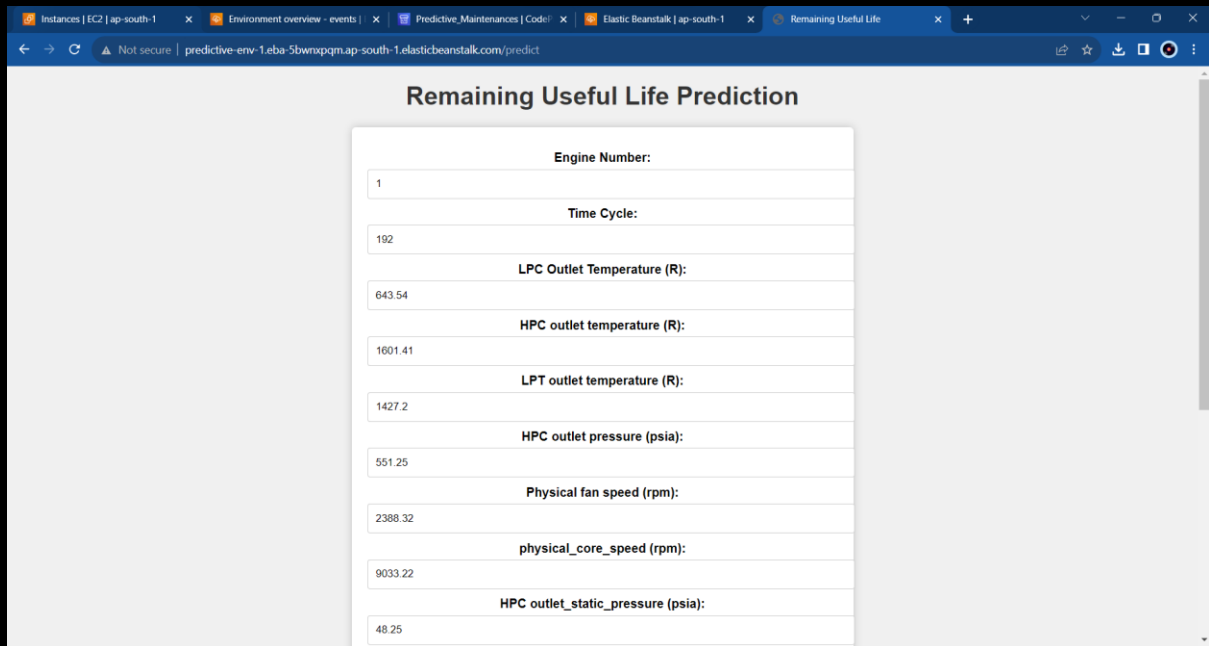
The Homepage will be displayed as soon as application is run. User will have to press predict the “Predict RUL” button to access the input features of Turbofan Engines.



Click on “Predict RUL” to access the sensor readings page:

Sensor Readings page

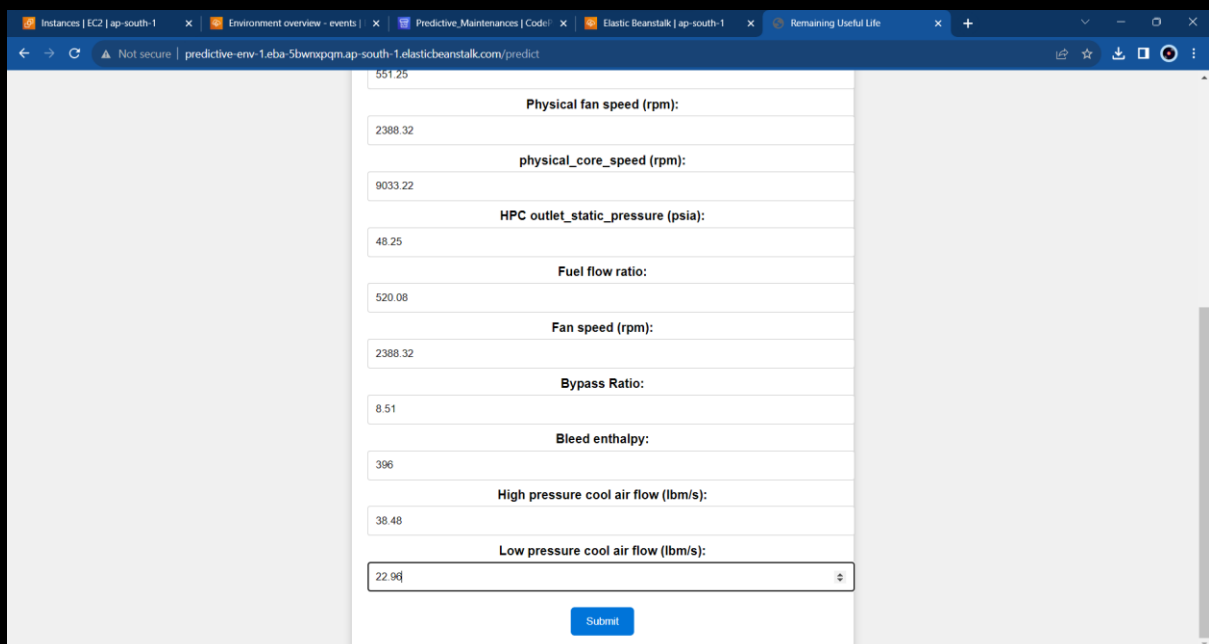
Once, “Predict RUL” button is selected, it will render the Sensor Readings page, where user will be able to enter the sensor readings for the Turbo-engine.



Remaining Useful Life Prediction

Engine Number:	1
Time Cycle:	192
LPC Outlet Temperature (R):	643.54
HPC outlet temperature (R):	1601.41
LPT outlet temperature (R):	1427.2
HPC outlet pressure (psia):	551.25
Physical fan speed (rpm):	2388.32
physical_core_speed (rpm):	9033.22
HPC outlet_static_pressure (psia):	48.25

User will be able to enter the different sensor readings for the data.



Remaining Useful Life Prediction

Fuel flow ratio:	551.25
Fan speed (rpm):	2388.32
Bypass Ratio:	8.51
Bleed enthalpy:	396
High pressure cool air flow (lbm/s):	38.48
Low pressure cool air flow (lbm/s):	22.94

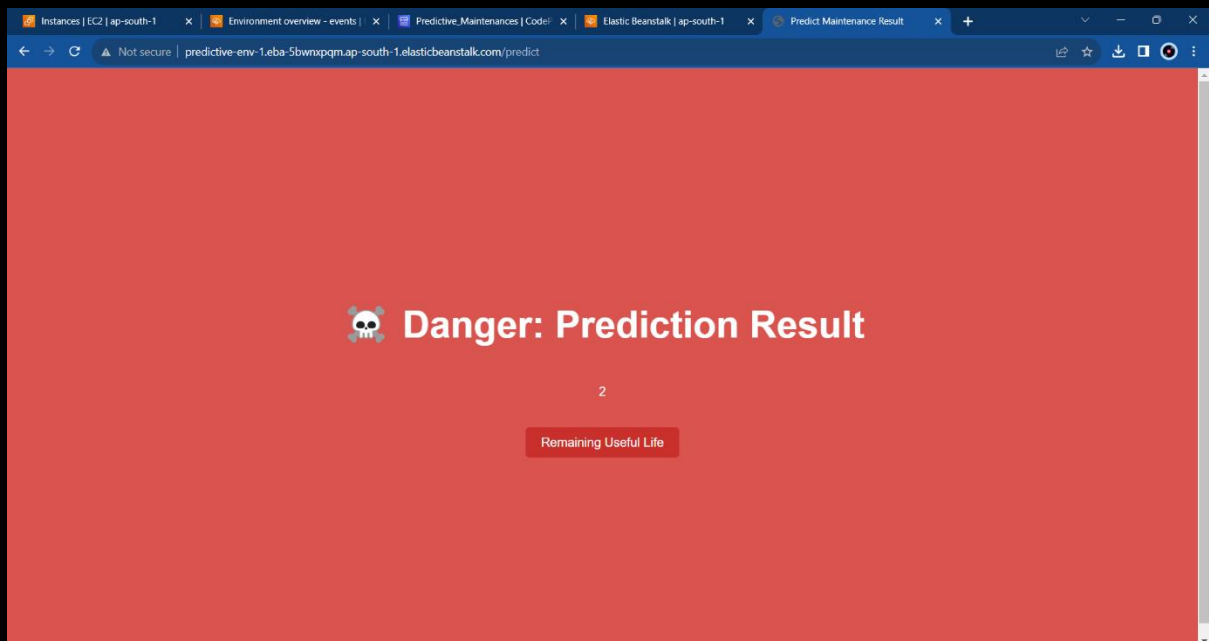
Submit

User have to submit the readings after entering each sensor data.

Result page

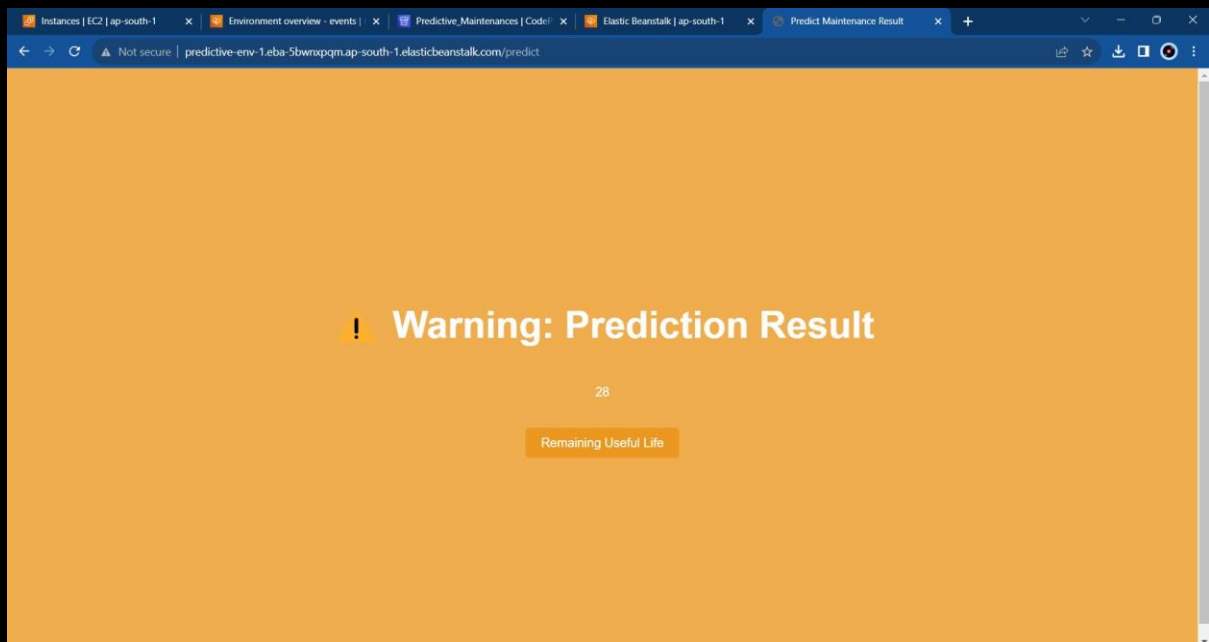
After, sensor data are submitted, it will render the result page giving the Remaining Useful Life (RUL) of turboengine.

If RUL is below 20, it will render:



Predictive Maintenance (WFD)

If RUL is between 20-50, it will render:



If RUL is above 50, it will render:

