

Turbofan Engine RUL Predictor (FD001)

Uploads → Engine details (Ensemble + LSTM) + Fleet overview.

Upload test file (.txt)

test_FD001.txt2.1 MB

Engine #X

3

Top-K critical engines

10

3

30

Sensor to display

s12

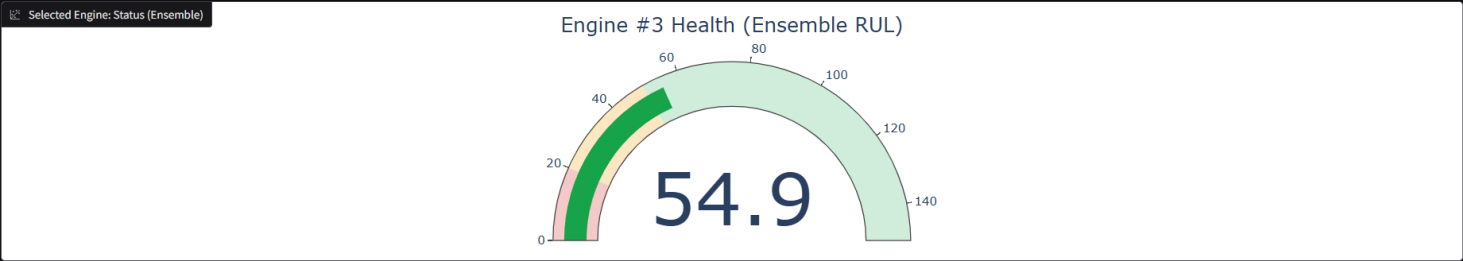
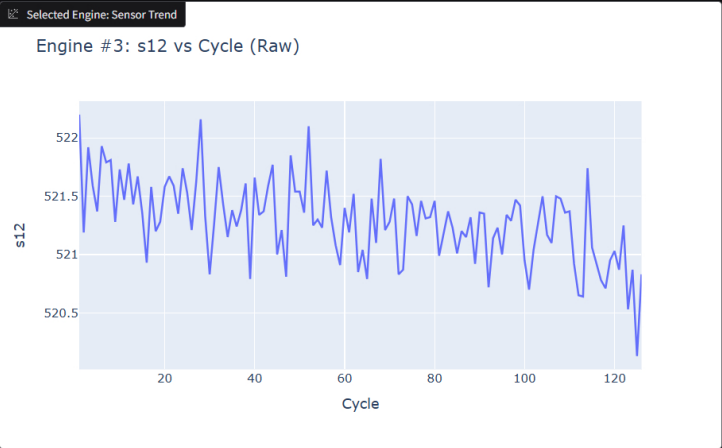
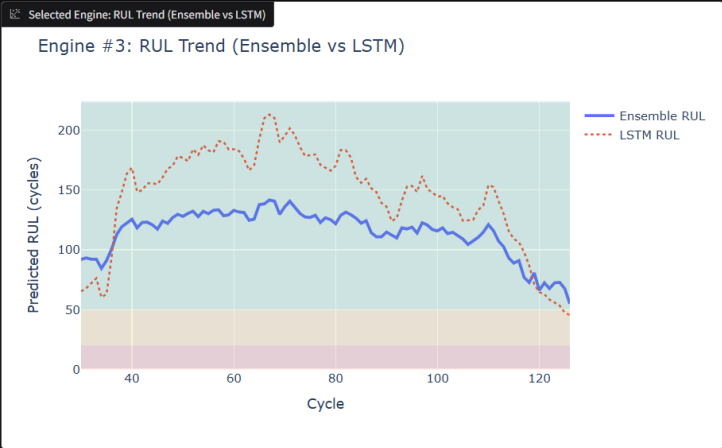
Run / Refresh

Engine #3 — Details

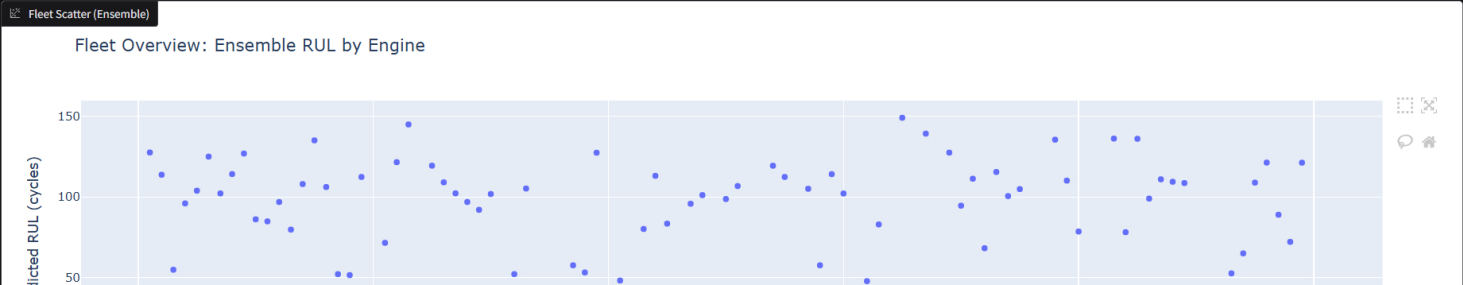
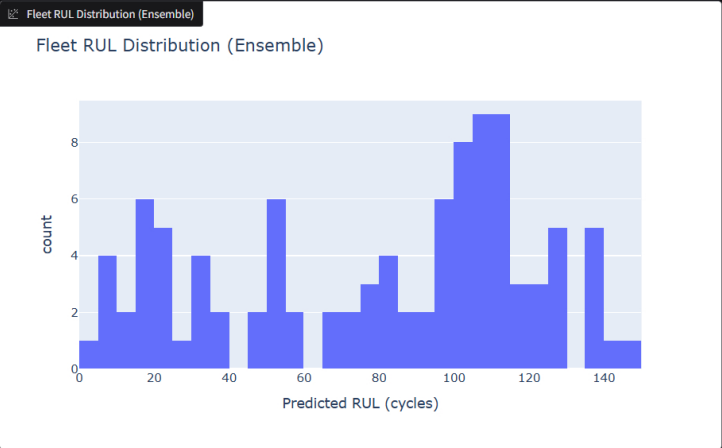
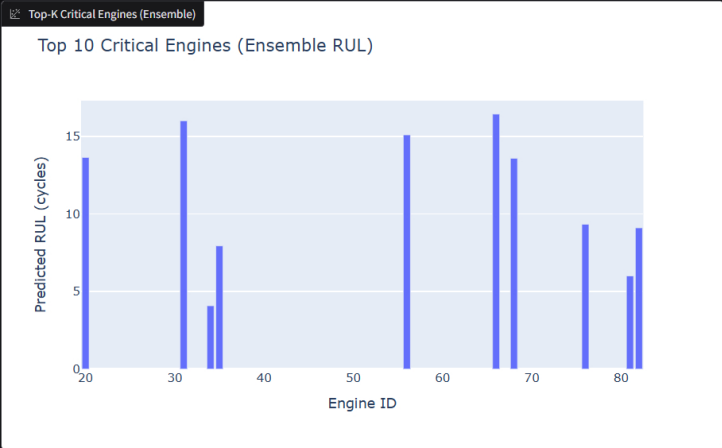
Ensemble RUL: 54.89 cycles
LSTM-only RUL: 45.40 cycles
Ensemble weight: $w_{lstm}=0.325$ (Ensemble = $w \cdot LSTM + (1-w) \cdot RF$)

Status (based on Ensemble): GREEN

Action: Airworthy / OK
Cycles in uploaded file: 126



Fleet overview (Ensemble)





Top-K Table

engine_id	RUL_ensemble	RUL_lstm
34	4.077499402369281	4.475404739379883
81	6.001252710236216	5.99191951751709
35	7.942414267470537	9.115106582641602
82	9.107852615754208	7.4892988204956055
76	9.338484000169266	10.645105361938477
68	13.595572661144024	8.516305923461914
20	13.652074334031337	15.437225341796875
56	15.108537936872942	14.56313705444336
31	16.01644664457693	10.902549743652344
66	16.448989850359624	15.090729713439941