# Turbofan DS Project – Variable Glossary

Table of features and target for predicting HPC isentropic efficiency.

| Variable | Type | Description |
|---|---|---|
| NetThrust_kN | float | Net thrust produced by the engine (overall propulsive force), in kN. |
| CoreNozzleGrossThrust_kN | float | Gross thrust contribution from the core (hot) nozzle, in kN. |
| BypassNozzleGrossThrust_kN | float | Gross thrust contribution from the bypass (cold) nozzle, in kN. |
| Sp.FuelConsumption_g/(kN*s) | float | Thrust specific fuel consumption (TSFC): fuel mass per unit thrust, in g/(kN*s). |
| SpecificThrust_m/s | float | Specific thrust: net thrust per unit air mass flow, expressed in m/s. |
| CoreNozzleVel.V8_m/s | float | Exhaust jet velocity at the core nozzle exit (station V8), in m/s. |
| CoreNozzlePressureRatio | float | Pressure ratio across the core nozzle (nozzle pressure ratio). |
| BypassNozzleVel.V18_m/s | float | Exhaust jet velocity at the bypass nozzle exit (station V18), in m/s. |
| BypassNozzlePressureRatio | float | Pressure ratio across the bypass nozzle (nozzle pressure ratio). |
| BurnerEfficiency | float | Combustor (burner) efficiency: fraction of fuel energy converted into flow enthalpy rise. |
| EnginePressureRatioP5/P2 | float | Engine pressure ratio (EPR): pressure at P5 divided by pressure at P2. |
| HPSpoolSpeed_RPM | float | High-pressure spool rotational speed, in RPM. |
| LPSpoolSpeed_RPM | float | Low-pressure spool rotational speed, in RPM. |
| FuelFlow_kg/s | float | Fuel mass flow rate, in kg/s. |
| LPTExitPressureP5_kPA | float | Pressure at the low-pressure turbine exit (station P5), in kPa. |
| LPTExitTemperatureT5_K | float | Temperature at the low-pressure turbine exit (station T5), in K. |
| Isentr.HPCEfficiency | float | Isentropic efficiency of the high-pressure compressor (HPC) (prediction target). |