

# List of Features

Feature	Description
feature_fuel_mean	Average value of fuel level
feature_fuel_std	Standard deviation of fuel level
feature_fuel_min	Minimum value of fuel level
feature_fuel_max	Maximum value of fuel level
feature_brake_input_mean	Average value of input to brake actuators
feature_brake_input_std	Standard deviation of input to brake actuators
feature_brake_input_min	Minimum value of input to brake actuators
feature_brake_input_max	Maximum value of input to brake actuators
feature_gear_mean	Average value of gearbox
feature_gear_std	Standard deviation of gearbox
feature_gear_min	Minimum value of gearbox
feature_gear_max	Maximum value of gearbox
feature_wheelspeed_mean	Average value of wheelspeed rotation
feature_wheelspeed_std	Standard deviation of wheelspeed rotation
feature_wheelspeed_min	Minimum value of wheelspeed rotation
feature_wheelspeed_max	Maximum value of wheelspeed rotation
feature_brake_mean	Average value of brake value
feature_brake_std	Standard deviation of brake value
feature_brake_min	Minimum value of brake value
feature_brake_max	Maximum value of brake value
feature_throttle_mean	Average value of throttle value
feature_throttle_std	Standard deviation of throttle value
feature_throttle_min	Minimum value of throttle value
feature_throttle_max	Maximum value of throttle value
feature_parkingbrake_mean	Average value of parking brake
feature_parkingbrake_std	Standard deviation of parking brake
feature_parkingbrake_min	Minimum value of parking brake
feature_parkingbrake_max	Maximum value of parking brake
feature_reverse_mean	Average value of reverse gear
feature_reverse_std	Standard deviation of reverse gear
feature_reverse_min	Minimum value of reverse gear
feature_reverse_max	Maximum value of reverse gear
feature_airspeed_mean	Average value of airspeed
feature_airspeed_std	Standard deviation of airspeed
feature_airspeed_min	Minimum value of airspeed
feature_airspeed_max	Maximum value of airspeed
feature_smoothShiftLogicAV_mean	Average value of Smooth Shift logic
feature_smoothShiftLogicAV_std	Standard deviation of Smooth Shift logic
feature_smoothShiftLogicAV_min	Minimum value of Smooth Shift logic

<b>feature_smoothShiftLogicAV_max</b>	Maximum value of Smooth Shift logic
<b>feature_abs_mean</b>	Average value of Anti-lock Brake System (ABS)
<b>feature_abs_std</b>	Standard deviation of Anti-lock Brake System (ABS)
<b>feature_abs_min</b>	Minimum value of Anti-lock Brake System (ABS)
<b>feature_abs_max</b>	Maximum value of Anti-lock Brake System (ABS)
<b>feature_steering_mean</b>	Average value of steering value
<b>feature_steering_std</b>	Standard deviation of steering value
<b>feature_steering_min</b>	Minimum value of steering value
<b>feature_steering_max</b>	Maximum value of steering value
<b>feature_steering_input_mean</b>	Average value of steering input
<b>feature_steering_input_std</b>	Standard deviation of steering input
<b>feature_steering_input_min</b>	Minimum value of steering input
<b>feature_steering_input_max</b>	Maximum value of steering input
<b>feature_rpmspin_mean</b>	Average value of engine's rpm
<b>feature_rpmspin_std</b>	Standard deviation of engine's rpm
<b>feature_rpmspin_min</b>	Minimum value of engine's rpm
<b>feature_rpmspin_max</b>	Maximum value of engine's rpm
<b>feature_airflowspeed_mean</b>	Average value of speed of airflow
<b>feature_airflowspeed_std</b>	Standard deviation of speed of airflow
<b>feature_airflowspeed_min</b>	Minimum value of speed of airflow
<b>feature_airflowspeed_max</b>	Maximum value of speed of airflow
<b>feature_engineRunning_mean</b>	Average value of Engine running indicator
<b>feature_engineRunning_std</b>	Standard deviation of Engine running indicator
<b>feature_engineRunning_min</b>	Minimum value of Engine running indicator
<b>feature_engineRunning_max</b>	Maximum value of Engine running indicator
<b>feature_altitude_mean</b>	Average value of altitude
<b>feature_altitude_std</b>	Standard deviation of altitude
<b>feature_altitude_min</b>	Minimum value of altitude
<b>feature_altitude_max</b>	Maximum value of altitude
<b>feature_throttle_input_mean</b>	Average value of throttle input value
<b>feature_throttle_input_std</b>	Standard deviation of throttle input value
<b>feature_throttle_input_min</b>	Minimum value of throttle input value
<b>feature_throttle_input_max</b>	Maximum value of throttle input value
<b>feature_driveshaft_mean</b>	Average value of driveshaft speed
<b>feature_driveshaft_std</b>	Standard deviation of driveshaft speed
<b>feature_driveshaft_min</b>	Minimum value of driveshaft speed
<b>feature_driveshaft_max</b>	Maximum value of driveshaft speed
<b>feature_tcs_mean</b>	Average value of Traction Control System (TCS)
<b>feature_tcs_std</b>	Standard deviation of Traction Control System (TCS)
<b>feature_tcs_max</b>	Minimum value of Traction Control System (TCS)
<b>feature_odometer_mean</b>	Average value of odometer
<b>feature_odometer_std</b>	Standard deviation of odometer

<b>feature_odometer_min</b>	Minimum value of odometer
<b>feature_odometer_max</b>	Maximum value of odometer
<b>feature_parkingbrake_input_mean</b>	Average value of parking brake input
<b>feature_parkingbrake_input_std</b>	Standard deviation of parking brake input
<b>feature_parkingbrake_input_min</b>	Minimum value of parking brake input
<b>feature_parkingbrake_input_max</b>	Maximum value of parking brake input
<b>feature_brakelight_signal_R_mean</b>	Average value of right brake light signal
<b>feature_brakelight_signal_R_std</b>	Standard deviation of right brake light signal
<b>feature_brakelight_signal_R_min</b>	Minimum value of right brake light signal
<b>feature_brakelight_signal_R_max</b>	Maximum value of right brake light signal
<b>feature_brakelight_signal_L_mean</b>	Average value of left brake light signal
<b>feature_brakelight_signal_L_std</b>	Standard deviation of left brake light signal
<b>feature_brakelight_signal_L_min</b>	Minimum value of left brake light signal
<b>feature_brakelight_signal_L_max</b>	Maximum value of left brake light signal
<b>feature_isYCBrakeActive_mean</b>	Average value of Yaw Control (YC) brake action
<b>feature_isYCBrakeActive_std</b>	Standard deviation of Yaw Control (YC) brake action
<b>feature_isYCBrakeActive_max</b>	Minimum value of Yaw Control (YC) brake action
<b>feature_isTCBrakeActive_mean</b>	Average value of Traction Control (TC) brake action
<b>feature_isTCBrakeActive_std</b>	Standard deviation of Traction Control (TC) brake action
<b>feature_isTCBrakeActive_min</b>	Minimum value of Traction Control (TC) brake action
<b>feature_isTCBrakeActive_max</b>	Maximum value of Traction Control (TC) brake action
<b>feature_clutch_mean</b>	Average value of clutch
<b>feature_clutch_std</b>	Standard deviation of clutch
<b>feature_clutch_min</b>	Minimum value of clutch
<b>feature_clutch_max</b>	Maximum value of clutch
<b>feature_rpm_mean</b>	Average value of RPMs
<b>feature_rpm_std</b>	Standard deviation of RPMs
<b>feature_rpm_min</b>	Minimum value of RPMs
<b>feature_rpm_max</b>	Maximum value of RPMs
<b>feature_freezeState_mean</b>	Average value of Freeze state
<b>feature_freezeState_std</b>	Standard deviation of Freeze state
<b>feature_freezeState_min</b>	Minimum value of Freeze state
<b>feature_freezeState_max</b>	Maximum value of Freeze state
<b>feature_esc_mean</b>	Average value of Electronic Stability Control (ESC)
<b>feature_esc_std</b>	Standard deviation of Electronic Stability Control (ESC)
<b>feature_esc_max</b>	Minimum value of Electronic Stability Control (ESC)
<b>feature_virtualAirspeed_mean</b>	Average value of virtual airspeed
<b>feature_virtualAirspeed_std</b>	Standard deviation of virtual airspeed
<b>feature_virtualAirspeed_min</b>	Minimum value of virtual airspeed
<b>feature_virtualAirspeed_max</b>	Maximum value of virtual airspeed
<b>feature_abs_active_mean</b>	Average value of ABS being active
<b>feature_abs_active_std</b>	Standard deviation of ABS being active

<b>feature_abs_active_max</b>	Minimum value of ABS being active
<b>feature_avg_wheel_av_mean</b>	Average value of average wheel of AV
<b>feature_avg_wheel_av_std</b>	Standard deviation of average wheel of AV
<b>feature_avg_wheel_av_min</b>	Minimum value of average wheel of AV
<b>feature_avg_wheel_av_max</b>	Maximum value of average wheel of AV
<b>feature_brake_lights_mean</b>	Average value of brake lights state
<b>feature_brake_lights_std</b>	Standard deviation of brake lights state
<b>feature_brake_lights_min</b>	Minimum value of brake lights state
<b>feature_brake_lights_max</b>	Maximum value of brake lights state
<b>feature_clutch_ratio_mean</b>	Average value of clutch ratio
<b>feature_clutch_ratio_std</b>	Standard deviation of clutch ratio
<b>feature_clutch_ratio_min</b>	Minimum value of clutch ratio
<b>feature_clutch_ratio_max</b>	Maximum value of clutch ratio
<b>feature_engine_load_mean</b>	Average value of engine's load
<b>feature_engine_load_std</b>	Standard deviation of engine's load
<b>feature_engine_load_min</b>	Minimum value of engine's load
<b>feature_engine_load_max</b>	Maximum value of engine's load
<b>feature_engine_throttle_mean</b>	Average value of engine throttle
<b>feature_engine_throttle_std</b>	Standard deviation of engine throttle
<b>feature_engine_throttle_min</b>	Minimum value of engine throttle
<b>feature_engine_throttle_max</b>	Maximum value of engine throttle
<b>feature_esc_active_mean</b>	Average value of Electronic Stability Control (ESC) state
<b>feature_esc_active_std</b>	Standard deviation of Electronic Stability Control (ESC) state
<b>feature_esc_active_max</b>	Minimum value of Electronic Stability Control (ESC) state
<b>feature_exhaust_flow_mean</b>	Average value of exhaust flow
<b>feature_exhaust_flow_std</b>	Standard deviation of exhaust flow
<b>feature_exhaust_flow_min</b>	Minimum value of exhaust flow
<b>feature_exhaust_flow_max</b>	Maximum value of exhaust flow
<b>feature_fuel_volume_mean</b>	Average value of fuel volume
<b>feature_fuel_volume_std</b>	Standard deviation of fuel volume
<b>feature_fuel_volume_min</b>	Minimum value of fuel volume
<b>feature_fuel_volume_max</b>	Maximum value of fuel volume
<b>feature_gear_index_mean</b>	Average value of gear index
<b>feature_gear_index_std</b>	Standard deviation of gear index
<b>feature_gear_index_min</b>	Minimum value of gear index
<b>feature_gear_index_max</b>	Maximum value of gear index
<b>feature_gear_m_mean</b>	Average value of gear in manual
<b>feature_gear_m_std</b>	Standard deviation of gear in manual
<b>feature_gear_m_min</b>	Minimum value of gear in manual
<b>feature_gear_m_max</b>	Maximum value of gear in manual
<b>feature_is_shifting_mean</b>	Average value of shifting state
<b>feature_is_shifting_std</b>	Standard deviation of shifting state

<b>feature_is_shifting_max</b>	Minimum value of shifting state
<b>feature_oil_temperature_mean</b>	Average value of oil temperature
<b>feature_oil_temperature_std</b>	Standard deviation of oil temperature
<b>feature_oil_temperature_min</b>	Minimum value of oil temperature
<b>feature_oil_temperature_max</b>	Maximum value of oil temperature
<b>feature_rpm_tacho_mean</b>	Average value of tachometer's RPM value
<b>feature_rpm_tacho_std</b>	Standard deviation of tachometer's RPM value
<b>feature_rpm_tacho_min</b>	Minimum value of tachometer's RPM value
<b>feature_rpm_tacho_max</b>	Maximum value of tachometer's RPM value
<b>feature_tcs_active_mean</b>	Average value of Traction Control System (TCS) state
<b>feature_tcs_active_std</b>	Standard deviation of Traction Control System (TCS) state
<b>feature_tcs_active_max</b>	Minimum value of Traction Control System (TCS) state
<b>feature_water_temperature_mean</b>	Average value of water temperature
<b>feature_water_temperature_std</b>	Standard deviation of water temperature
<b>feature_water_temperature_min</b>	Minimum value of water temperature
<b>feature_water_temperature_max</b>	Maximum value of water temperature
<b>feature_test_duration</b>	Test duration
<b>feature_full_road_diversity</b>	Area under the curve - curvature ratio
<b>feature_mean_road_diversity</b>	Average value of - curvature ratio
<b>feature_direct_distance</b>	Direct distance
<b>feature_max_angle</b>	Maximum value of all angles in the road
<b>feature_max_pivot_off</b>	Maximum value of radius of all turns of the road
<b>feature_mean_angle</b>	Average value of all angles in the road
<b>feature_mean_pivot_off</b>	Average value of radius of all turns of the road
<b>feature_median_angle</b>	Median value of all angles in the road
<b>feature_median_pivot_off</b>	Median value of radius of all turns of the road
<b>feature_min_angle</b>	Minimum value of any angle in the road
<b>feature_min_pivot_off</b>	Minimum value of radius of any turn of the road
<b>feature_num_l_turns</b>	Number of left turns
<b>feature_num_r_turns</b>	Number of right turns
<b>feature_num straights</b>	Number of straight segments
<b>feature_road_distance</b>	Road distance
<b>feature_std_angle</b>	Standard deviation of all angles in the road
<b>feature_std_pivot_off</b>	Standard deviation of radius of all turns of the road
<b>feature_total_angle</b>	Sum of all angles in the road