

Model Development Phase Template

Date	15 July 2024
Team ID	739956
Project Title	Revolutionizing Automotive Resale: AI-Driven Prediction of Used Toyota Corolla Car Prices
Maximum Marks	5 Marks

Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
ID	It used to identify	Yes	ID cards are essential for various reasons, including security, identification, and access control.
Model	The used Toyota Corolla price prediction model is an AI-driven tool designed to estimate the market value of pre-owned Toyota Corolla vehicles.	Yes	The used Toyota Corolla price prediction model is developed to address the complexities and dynamics of the used car market

Price	The price of a used Toyota Corolla is influenced by a multitude of factors that together determine its market value	Yes	The price of a used Toyota Corolla involves a nuanced evaluation of several critical factors that collectively influence its market value.
Age_08_04	The term "Age_08_04" typically refers to the age of a vehicle in months, calculated from August 2004 onwards.	Yes	The concept of "Age_08_04" is used to denote the age of a vehicle in months, starting from August 2004 onwards.
Mfg_Year	The "Mfg_year" attribute refers to the specific year in which a vehicle was manufactured by its maker.	Yes	The "Mfg_year" attribute holds pivotal significance in the automotive industry as it serves as a definitive marker of a vehicle's origin and age
KM	Represents the total distance traveled by the vehicle, typically measured in kilometers or miles.	Yes	Kilometers (KM) traveled by a vehicle represent a pivotal metric in the automotive industry, serving as a foundational indicator that impacts various facets of vehicle assessment, market valuation, and consumer decision-making.
Fuel Type	Specifies the type of fuel used to power the	Yes	The choice of fuel type for vehicles is a pivotal decision that influences various aspects of automotive technology,

	vehicle, determining its energy source and environmental impact.		market dynamics, and environmental sustainability.
HP	Horsepower (HP): A unit of measurement used to quantify the power output of an engine, indicating its ability to perform work over time.	Yes	horsepower (HP) as a crucial metric in the automotive industry revolves around its direct impact on vehicle performance, consumer perception, engineering design, and regulatory compliance.
Met Color	a metallic paint finish option available for vehicles, characterized by small metal flakes mixed into the paint to create a reflective and shiny appearance.	Yes	metallic colors (Met Color) for vehicles is driven by several key factors that cater to consumer preferences, aesthetic appeal, and market dynamics within the automotive industry.
Powered windows	Refers to windows in a vehicle that can be electronically opened or closed using controls typically located on the door	Yes	The inclusion of powered windows in vehicles is driven by a combination of convenience, safety, accessibility, and market demand.

	panel.		
Power Steering	A system in vehicles that assists the driver in steering the vehicle by using hydraulic or electric power to reduce the effort needed to turn the steering wheel.	Yes	power steering in vehicles is grounded in several key factors that enhance driver comfort, vehicle maneuverability, safety, and overall market competitiveness.
Radio	The radio in a vehicle serves as a central entertainment and information hub, providing drivers with access to music, news, and other content while on the road.	Yes	The inclusion of a radio in vehicles is grounded in its fundamental role in enhancing driver and passenger experience through entertainment, information access, and connectivity.
Sport Model	A variant of a vehicle model specifically designed and equipped to emphasize performance, handling, and aesthetic enhancements over standard models.	Yes	sport model within a vehicle lineup centers on catering to consumers who prioritize enhanced performance, dynamic driving experiences, and distinctive styling.

Backseat Divider	A partition or barrier installed in the rear seating area of a vehicle to separate the passenger compartment from the cargo area.	Yes	The reasoning behind incorporating a backseat divider into vehicles revolves around enhancing both practicality and comfort for passengers and cargo.
Parking assistant	A technology integrated into vehicles to assist drivers in parking maneuvers, particularly in tight spaces or parallel parking situations.	Yes	The reasoning behind integrating a parking assistant into vehicles is centered on addressing challenges associated with parking in modern urban environments and enhancing overall driver convenience, safety, and vehicle usability.
Tow Bar	A device mounted on a vehicle's rear chassis that enables it to tow trailers, caravans, or other vehicles.	Yes	The reasoning behind equipping vehicles with a tow bar revolves around enhancing their versatility and utility, enabling them to tow trailers, caravans, boats, or other loads.