

Price Anomaly Detector for Indian Second-hand Marketplace

Interactive dashboard to explore price anomalies with SHAP explanations.

Total Validated Anomalies: 103

✔ SHAP explainer initialized successfully!

Anomaly Explorer

Filter by Rule Violation

All

Sort By

residual

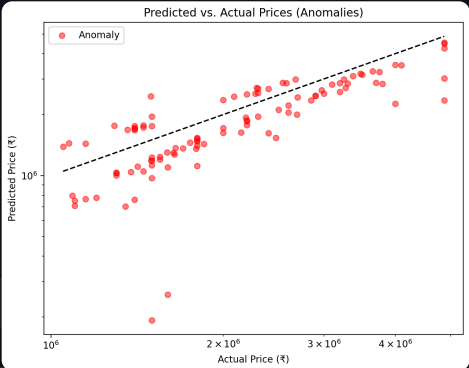
☐ Sort Ascending

Filtered Anomalies: 103

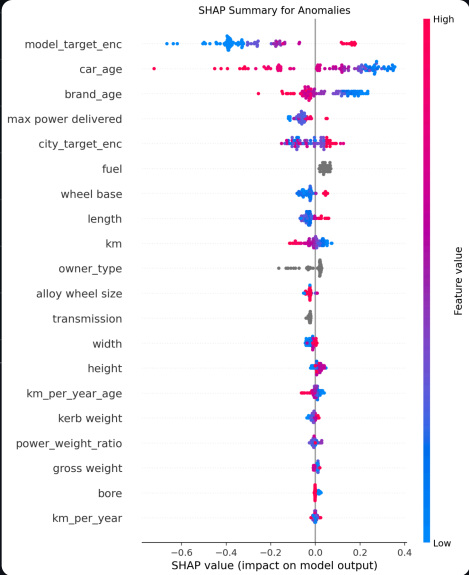
	model	oem	listed_price	predicted_price	residual	km	car_age
17	porsche cayenne	porsche	₹3,275,000	₹2,716,313	₹558,687	101,995	12
18	mercedes-benz c-class	mercedes-benz	₹2,600,000	₹2,047,766	₹552,234	119,842	9
19	audi a4	audi	₹1,500,000	₹970,471	₹529,529	120,000	13
20	mercedes-benz e-class	mercedes-benz	₹2,150,000	₹1,630,393	₹519,607	101,000	12
21	toyota fortuner	toyota	₹3,750,000	₹3,243,125	₹506,875	134,000	6
22	mahindra xuv500	mahindra	₹1,600,000	₹1,097,651	₹502,349	102,605	8
23	toyota fortuner	toyota	₹2,850,000	₹2,356,481	₹493,519	191,783	8
24	bmw 5 series	bmw	₹1,290,000	₹1,763,615	₹473,615	102,000	11
25	bmw x5	bmw	₹4,000,000	₹3,527,638	₹472,362	112,411	8
26	toyota fortuner	toyota	₹3,000,000	₹2,540,963	₹459,037	120,000	2
27	volvo xc 90	volvo	₹1,500,000	₹1,056,061	₹443,939	101,782	0

Visualizations

Predicted vs. Actual Prices



high_price_high_km
SHAP Summary Plot
high_price_high_km



SHAP Explanation for Selected Anomaly

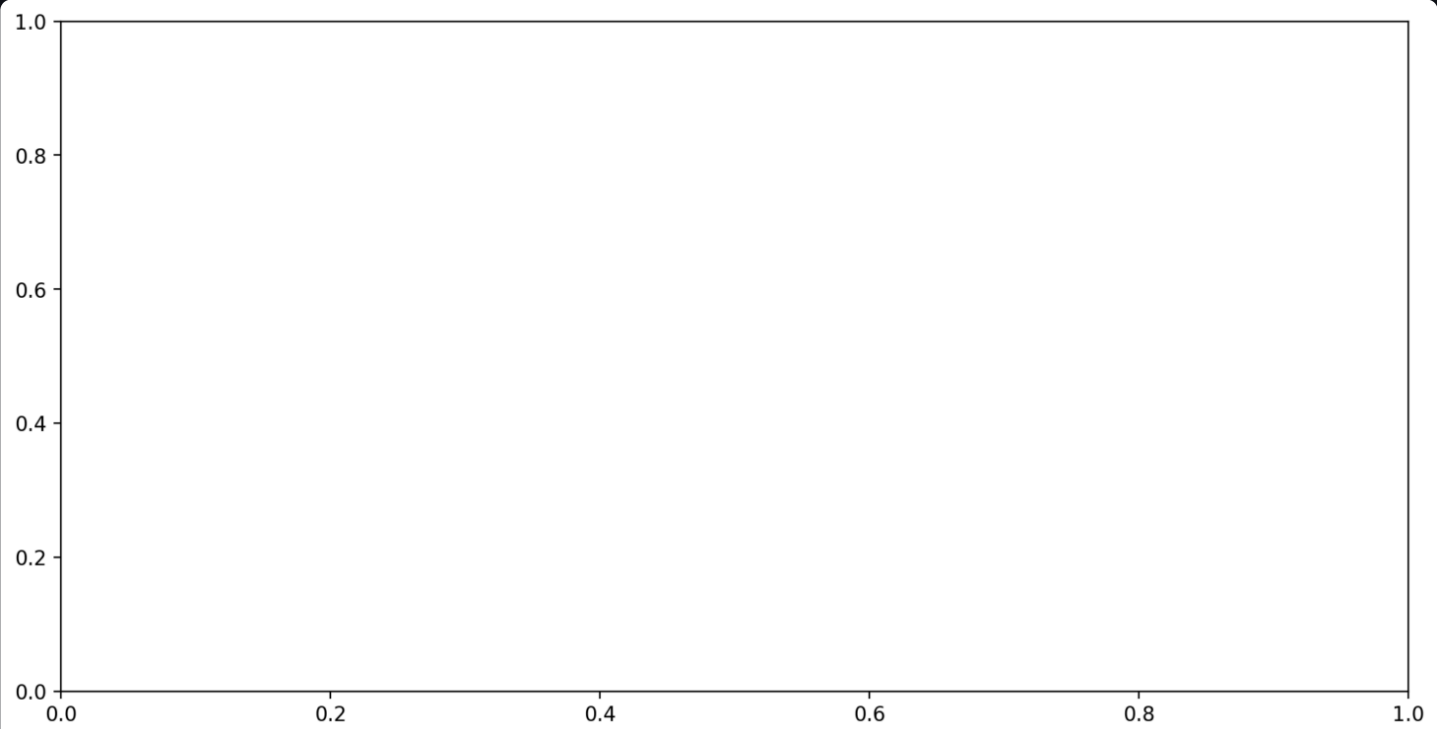
Select Anomaly Index

0

Details for Anomaly (Index 0)

	model	oem	listed_price	predicted_price	residual	km	car_age
0	toyota land cruiser	toyota	₹4,872,000	₹2,356,049	₹2,515,951	162,000	12

SHAP Force Plot



Feature Values for this Anomaly:

	Feature	Value
0	km	
1	car_age	
2	km_per_year	
3	max power delivered	
4	alloy wheel size	
5	length	
6	width	
7	height	
8	wheel base	
9	front tread	

> Debug Information

README.md updated with Streamlit UI summary.