

Car Recommender

Determining your car **brand** and **model**

selecting, our cal



What brand is interesting for me?

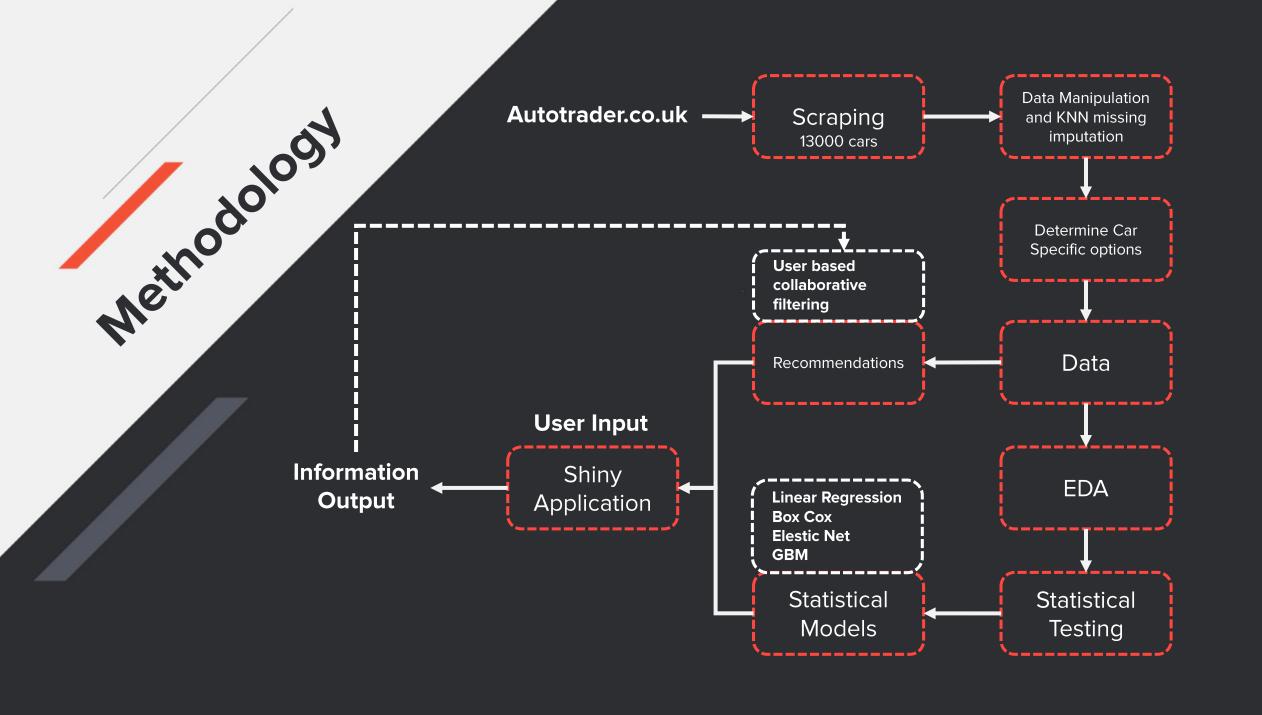
How much will such a car cost?

What is the milage of the car?

What are the prices of the options?

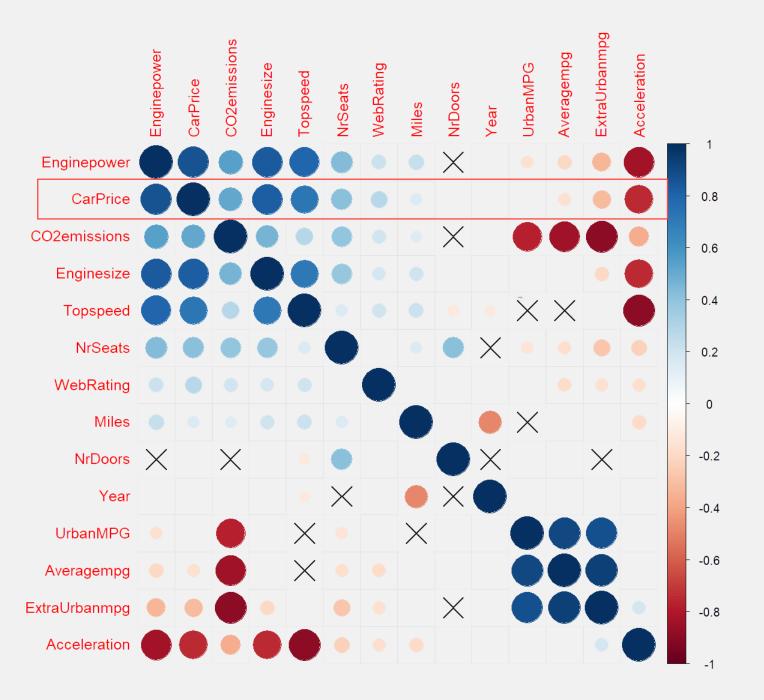


And many other car features



EXPloratory Analysis

EXPloratory



Machine Learning) Machine Learning

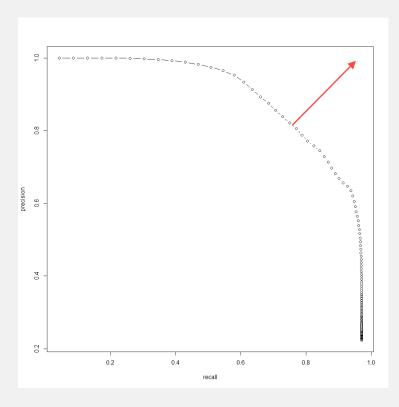
Attempting to predict the car price

		Train R2	Test R2
Linear Regression	Manual	0.90	0.899
	Stepwise	0.914	0.914
	Вох Сох	0.900	0.899
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Elastic Net		0.916	0.921
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Gradient Boosting		0.979	0.957

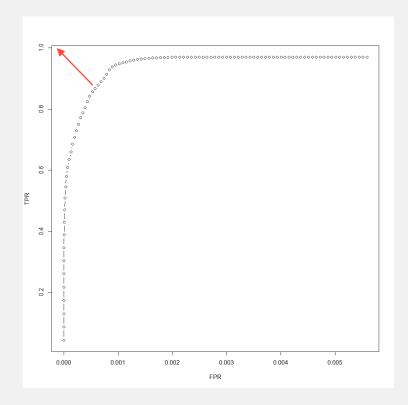
Recommendation

Collaborative Filtering

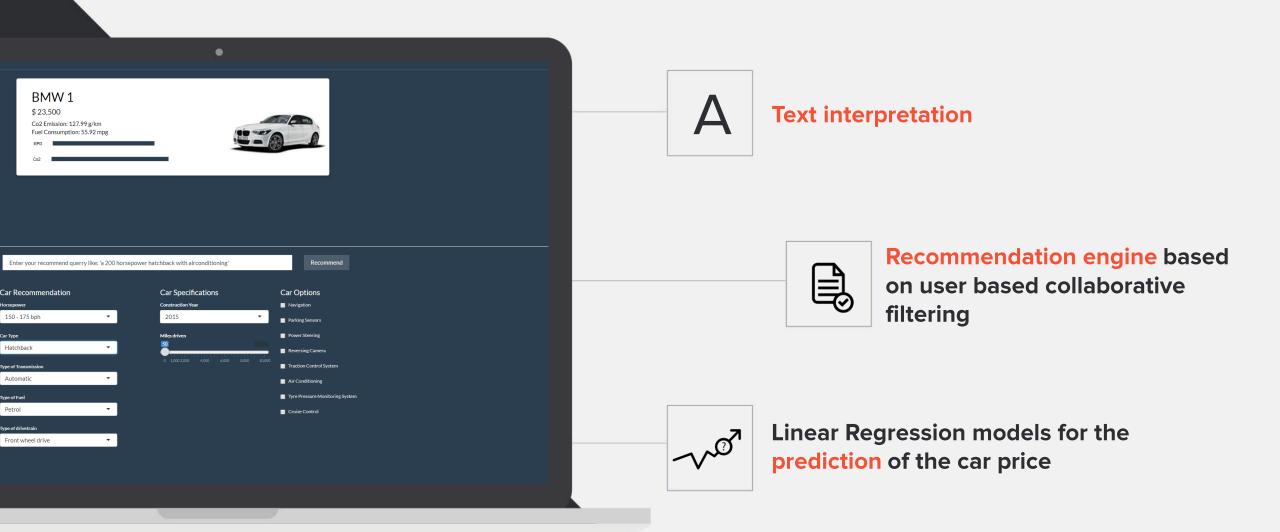
- Collaborative filtering (CF) uses given rating data by many users for many items as the basis for creating a top-N recommendation list.
- The assumption is that users with similar preferences will rate items similarly. Thus missing ratings for a user can be predicted by first finding a neighborhood of similar users and then aggregate the ratings of these users to form a prediction (K nearest neighbors).



High precision (how useful the search results are) for high recall (how complete the results are)



High number of true positive predictions for a low number of false positive predictions



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