



01
INTRODUCTION

INTRODUCTION







Motivation

To overhaul used car listing/quotation process, seeking maximum efficiency and accuracy

Objectives

Leverage existing used car listing data to build an informed predictive model

Goals

Implement our predictive tool into production to begin stream-lining the quotation process



02

METHODOLOGY

FRAMEWORK

APPLY VARIETY OF DIFFERENT REGRESSION MODELS TO VIABLE LISTINGS TO 'TRAIN' OUR TOOL

LISTINGS

EACH LISTING
REPRESENTS ONE CAR
AND ITS FEATURES AND
SPECIFICATIONS

THE DATA



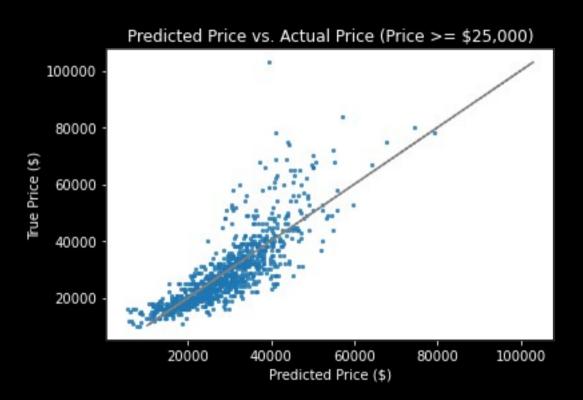
- Web-scraped from carmax.com
- Encompasses a wide range of models, makes, and classes
- 1,293 car listings



02

RESULTS

PRICE RANGE AS A FACTOR



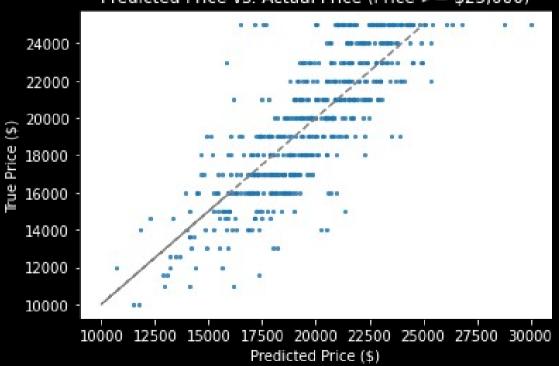
Conical shape = BAD

What is an acceptable price range?

After filtering for strongly pricecorrelated features, we determined a regularized model is most effective for price <=\$25,000

A REWORKED MODEL





16

Features

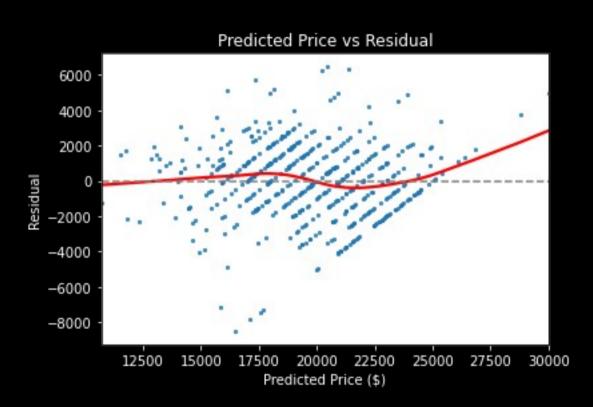
\$1,540.54

Mean Absolute Error

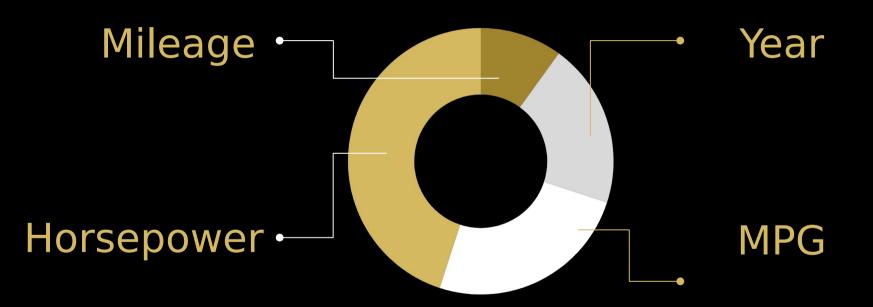
0.62

R2

A REWORKED MODEL



KEY FEATURES



LOOKING FORWARD

- Investigate modeling techniques that can account for behavior above \$25k
- Investigate our features, potentially bring in more features





THANKS!









CREDITS: This presentation template was created by Slidesgo, including icons by Flaticon, and infographics & images by Freepik.

Please keep this slide for attribution.