Iowa Housing Price Project

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The Problem

1. Understand the Ames Housing dataset through EDA

2. Perform any data cleaning

3. Prepare a clean dataset for modeling

4. Make prediction using the model

Data Processing

- Removing Na values

- Filling in columns with 0

- Converting numeric columns to float

- Removed top 5 Outliers from Gr Liv Area columns

Insights

First Observation

- Starting around 1940s, houses built in later years sold more quickly, compared to houses built in the 1900s.
- There is a big spike in 2000s at the very end of the timeline

Year Built vs Year Sold
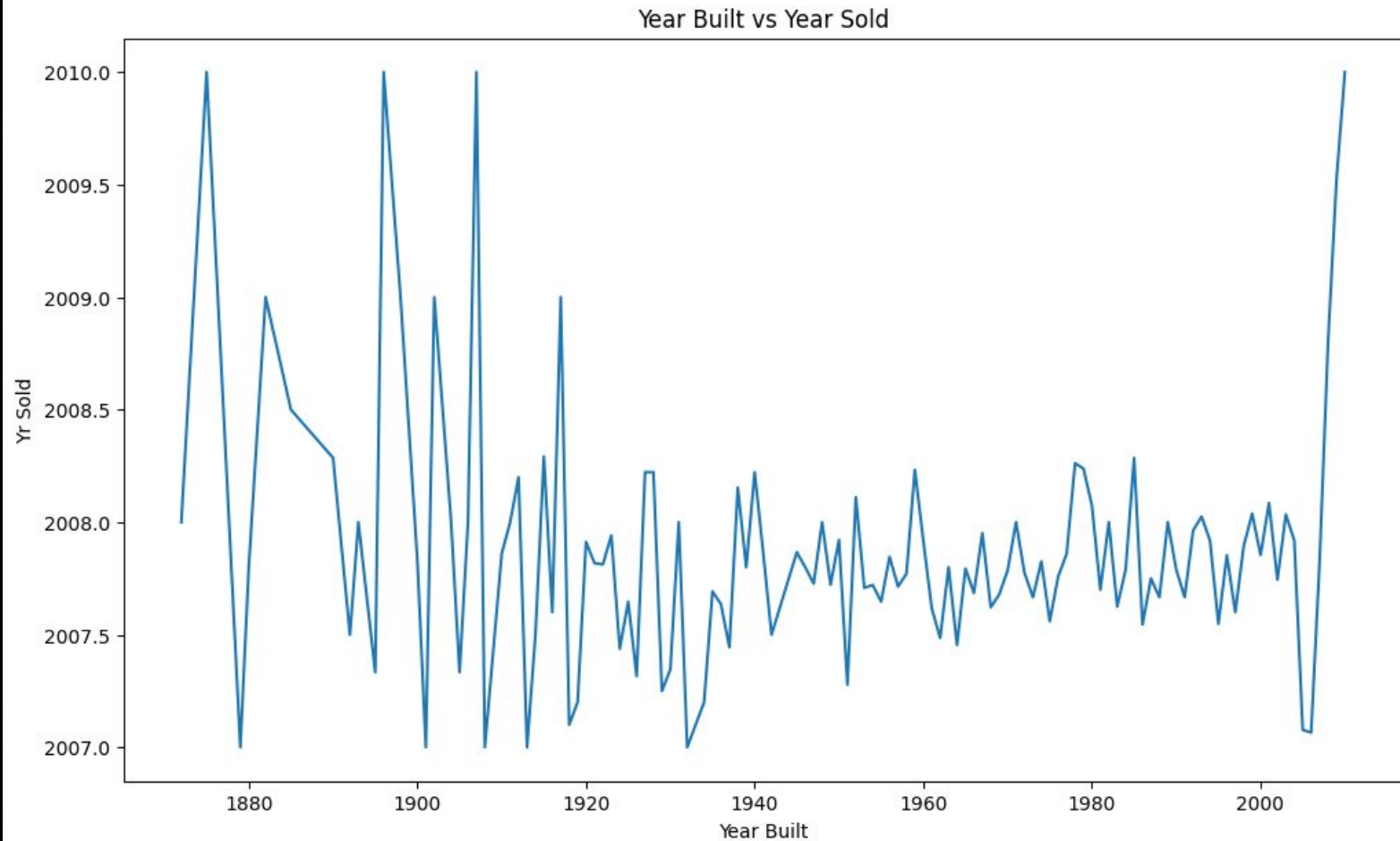
Second Observation

- Houses built from 1958 and onwards have more modern A/C system
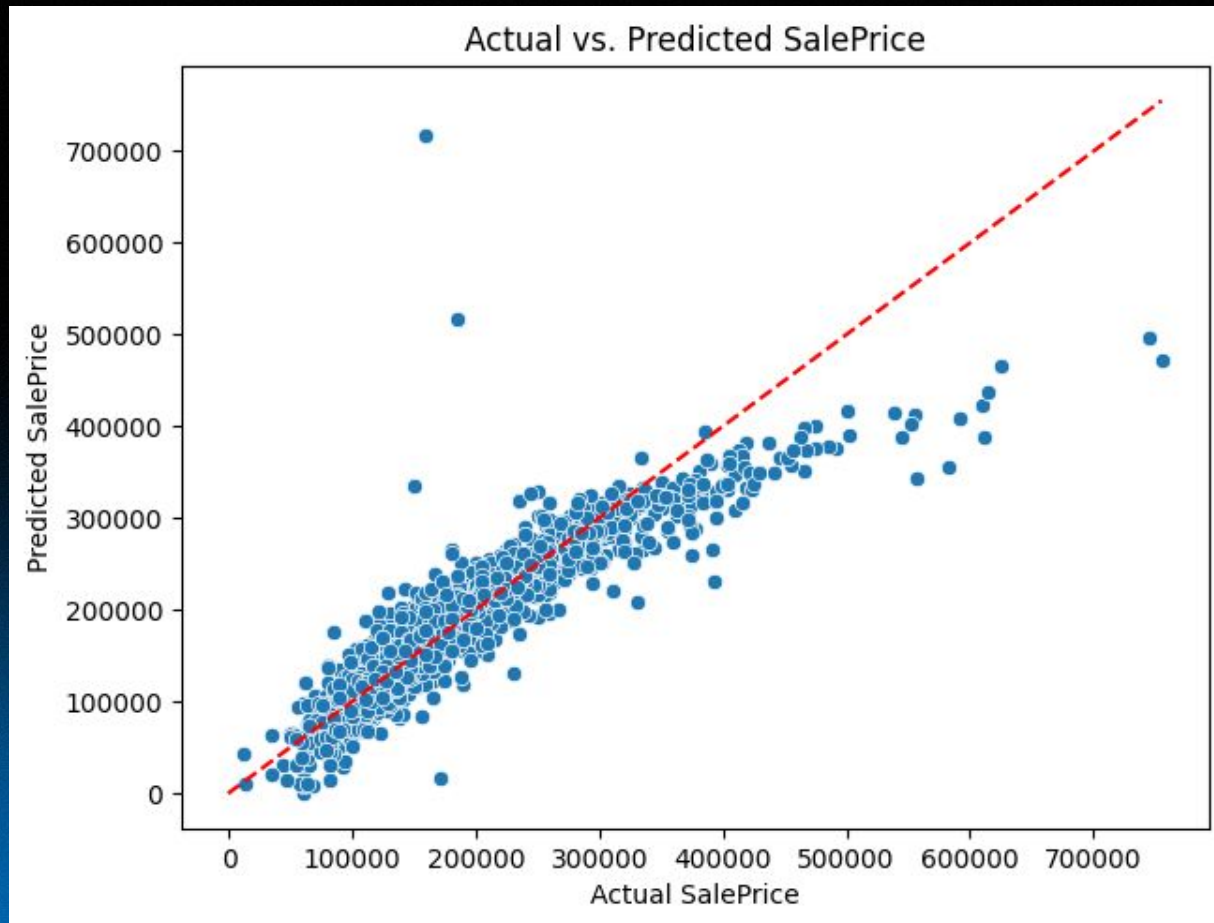- House that were built in 1910 to 1940s that have natural cooling elements.

Distribution of Year Built by Central Air
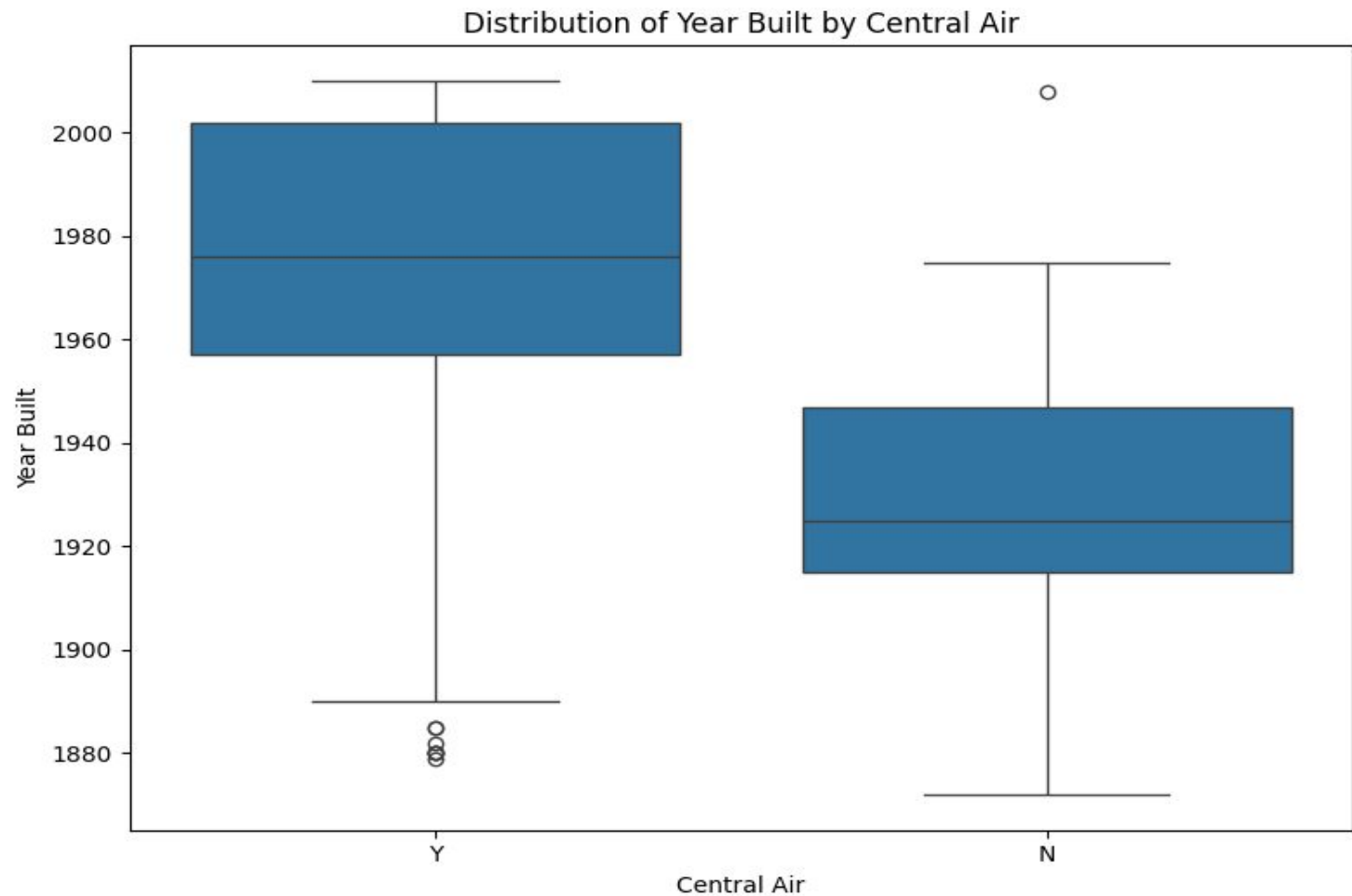
What Is A Baseline

- A Baseline a simple model that serves a point of reference for evaluating the minimum performance of the model.

Model Score

- R2 Score : 82.5%

- Mean Square Error score : $33,940

Actual vs. Predicted SalePrice

Thank you!

Revenue model

00%

00%

00%

00%

00%

Revenue stream 1

Define how you'll generate income from this source. Identify relevant pricing or channels.

Revenue stream 2

Define how you'll generate income from this source. Identify relevant pricing or channels.

Revenue stream 3

Define how you'll generate income from this source. Identify relevant pricing or channels.

Revenue stream 4

Define how you'll generate income from this source. Identify relevant pricing or channels.

Revenue stream 5

Define how you'll generate income from this source. Identify relevant pricing or channels.

The solution

Explain what your company or product does, and why it's critical in the current market.

01
Value proposition

Describe a key benefit that your company, product, or service offers customers.

02
Value proposition

Define what distinguishes your company, product, or service from what's available.

03
Value proposition

Identify your customers and how you'll connect to their behaviors and needs.
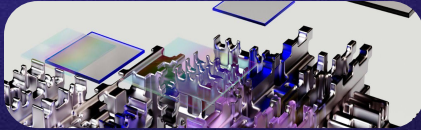
04
Value proposition

Copy this slide and add as many items as necessary to fully outline your company's value.
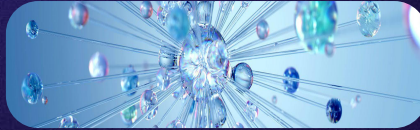
Objectives

Write a *confident statement* defining what success looks like to your company.

Introduce a specific business objective

To establish how you'll measure success, identify your key performance indicators (KPIs) and list them:

- KPI 1
- KPI 2
- KPI 3

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The opportunity

Based on your competitive analysis in previous slides, describe the growth opportunities for your business. Write a comprehensive claim here, then break it down into individual learnings.

01

Key learning 1

Go deeper into a specific insight from the competitive analysis and what it means for your business.

02

Key learning 2

Point to the gap your product will fill and explain how your business can claim that space.

03

Key learning 3

Consider your brand and customer segments. Explain why you're ideally positioned to reach them.

Key activities

Primary activity name

Describe the core activity of your business – in other words, how you create and deliver your products or services.

This might be manufacturing, product design, software engineering, customer service, marketing, or project management.

Support activity name

Break down your primary activity into the additional activities required to successfully deliver your value propositions. These should all contribute to your core business function.

Support activity name

Think about your everyday operations. For example, if your primary activity is software engineering, your support activities may be customer support, software integration, or maintenance.

Support activity name

Show your audience what a day in the life of your organization looks like. Help them understand what's required to do what you do. You can also mention the teams or specialized roles involved in each activity.

Operational plan

Announce your vision for scaling operations.

01
Step title

Define your first goal toward making your business more productive and efficient.

02
Step title

Identify what you'll focus on next to help your team work together and grow your operations.

03
Step title

Describe the outcome you want to achieve next. Provide any relevant details about how you'll get there.

04
Step title

Bring it all together. Share how you'll evaluate, maintain, and advance your operations for long-term sustainability.

Invite your audience to learn more about your organization and to keep in touch.

Contact
Full Name
Title
name@example.com
Website

Invite your audience to learn more about your organization and to keep in touch.

Contact
Full Name
Title
name@example.com
Website