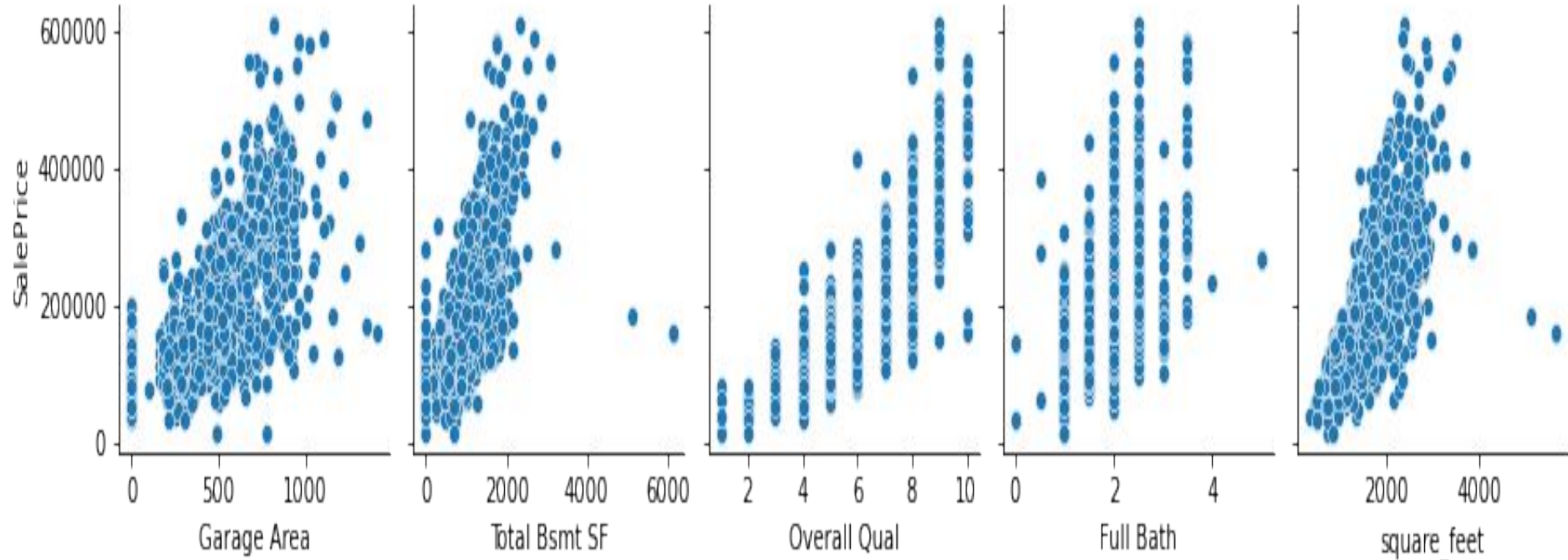**Vivek Bavda**
August 9, 2021

Fair Housing:

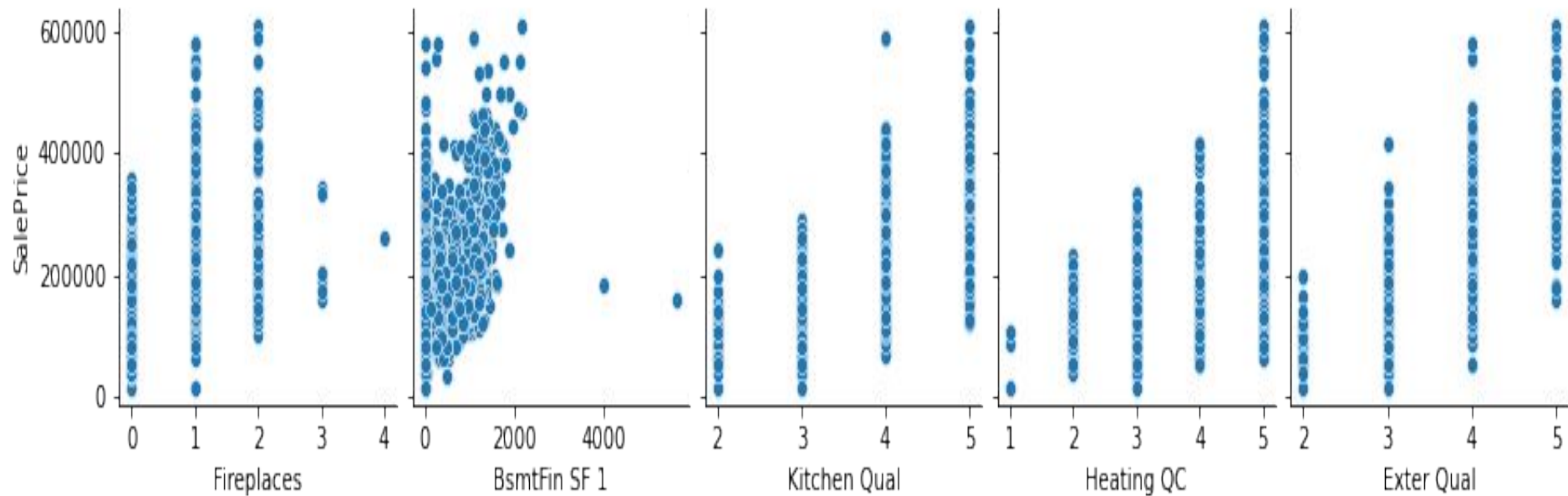**Predicting Home Sale Prices in Ames, IA**

Introduction:

As you are aware, Ms. Mayor of Ames, Iowa, there have been concerns about housing discrimination in Ames.

Given the uproar and your desire to integrate the community, you've asked me to provide a model of housing prices to determine if there has been a premium required for people of color on homes bought in Ames, Iowa.
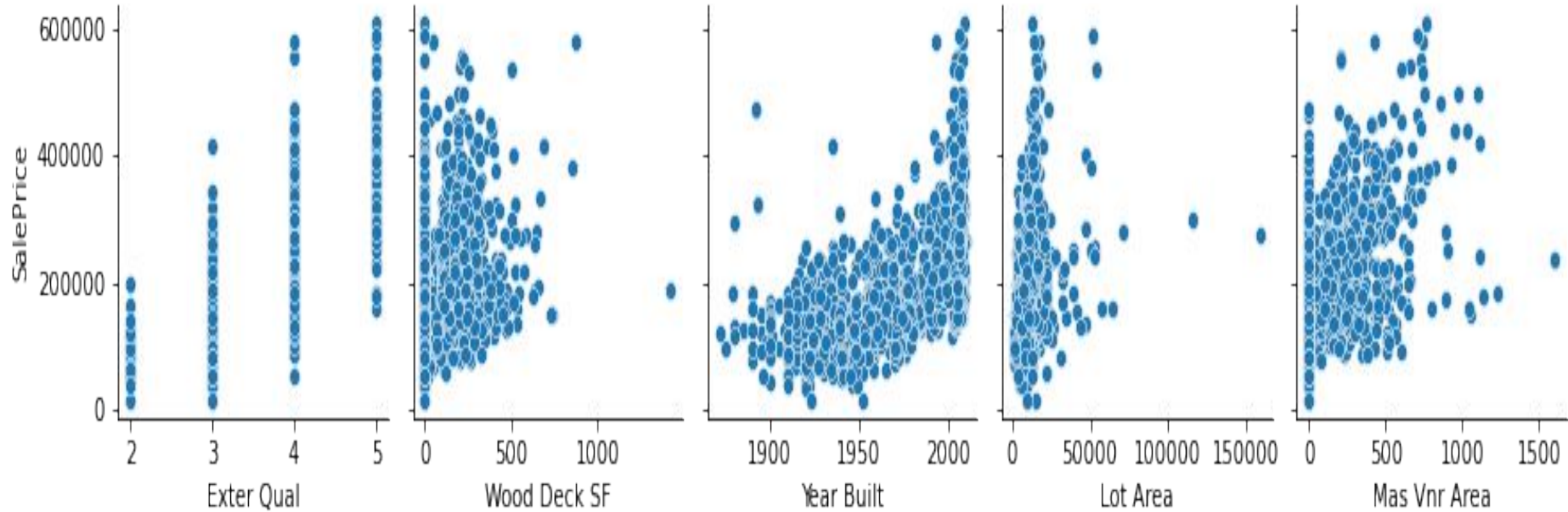
Data Visualizations-Linear Relationships

Linear Relationships

Linear Relationships

Correlation with Target

	SalePrice
Overall Qual	0.8
Year Built	0.57
mod/Add	0.55
Vnr Area	0.5
xter Qual	0.71
smt Qual	0.68
Bsmt SF	0.63
1st Flr SF	0.62
Liv Area	0.7
Full Bath	0.57
hen Qual	0.69
s AbvGrd	0.5
ge Yr Blt	0.53
age Cars	0.65
age Area	0.65
SalePrice	1
uare_feet	0.71

Conclusion

Ordinary Multivariate Linear Regression recommended

*Simplicity

Usage Recommendation

*The first recommendation would be to create an interactive version of the model on the city's website.

*The second recommendation would be to send two group of testers and compare the price agreed upon with the model.