

# Predicting Earthquake Building Damage

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# Problem Description





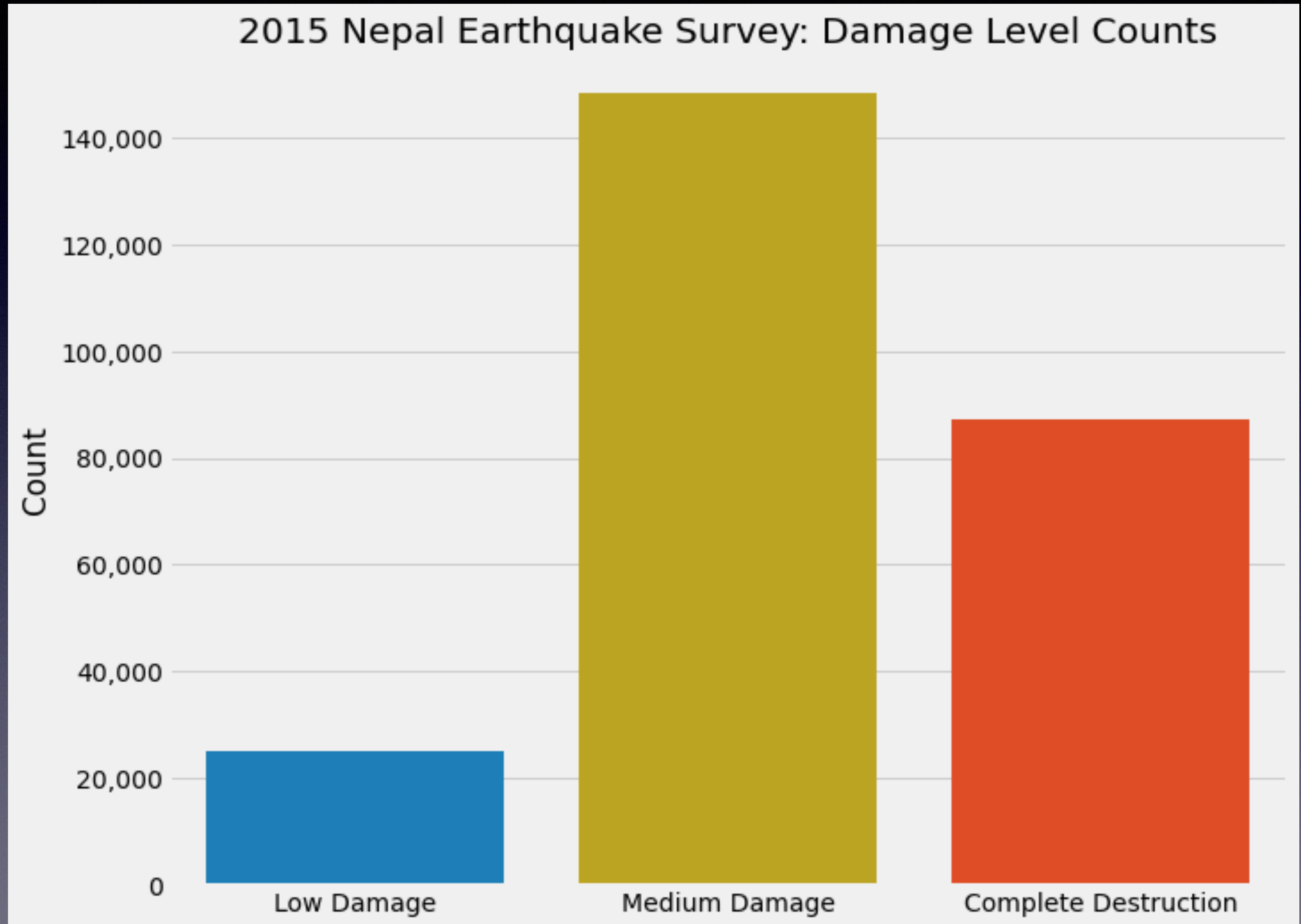
# DATA

- Data from: DrivenData.org (sourced from 2015 Nepal Earthquake Open Data Portal)
- Over 260,000 building records
- Each describes 38 building characteristics



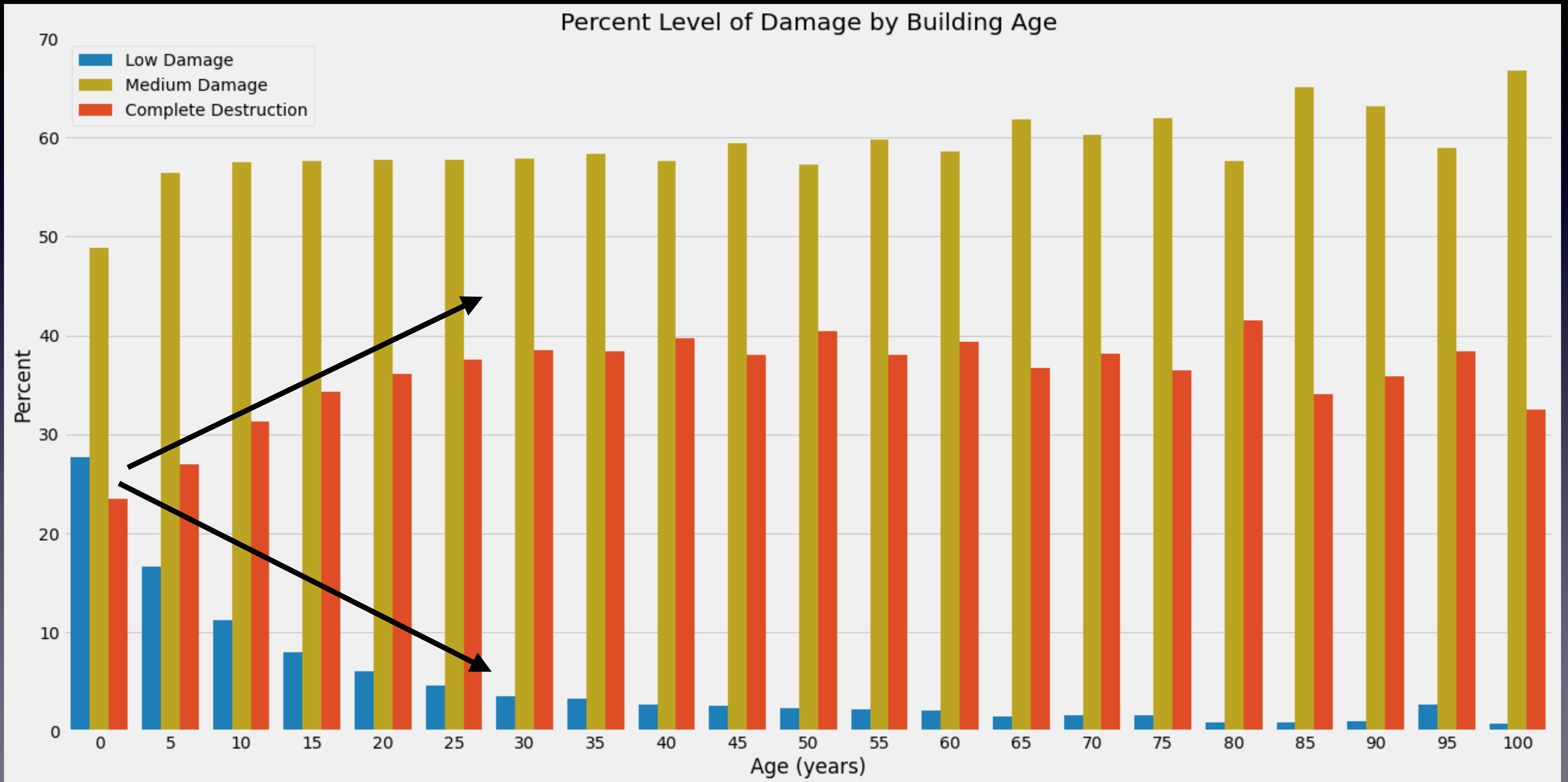
# Damage Levels

- Low Damage: 9.7%
- Medium Damage: 56.9%
- Complete Destruction: 33.5%



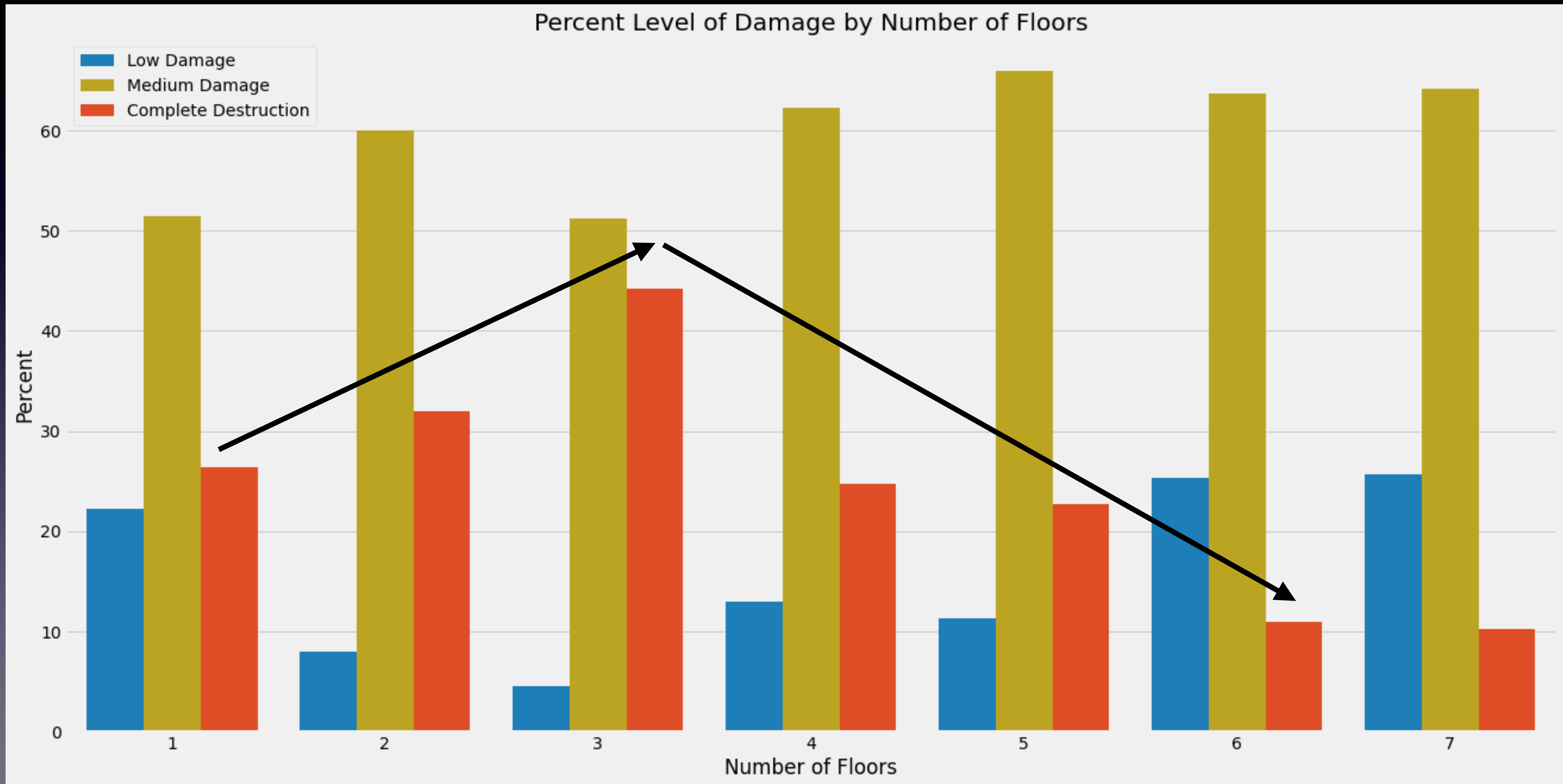


# Age of the Building



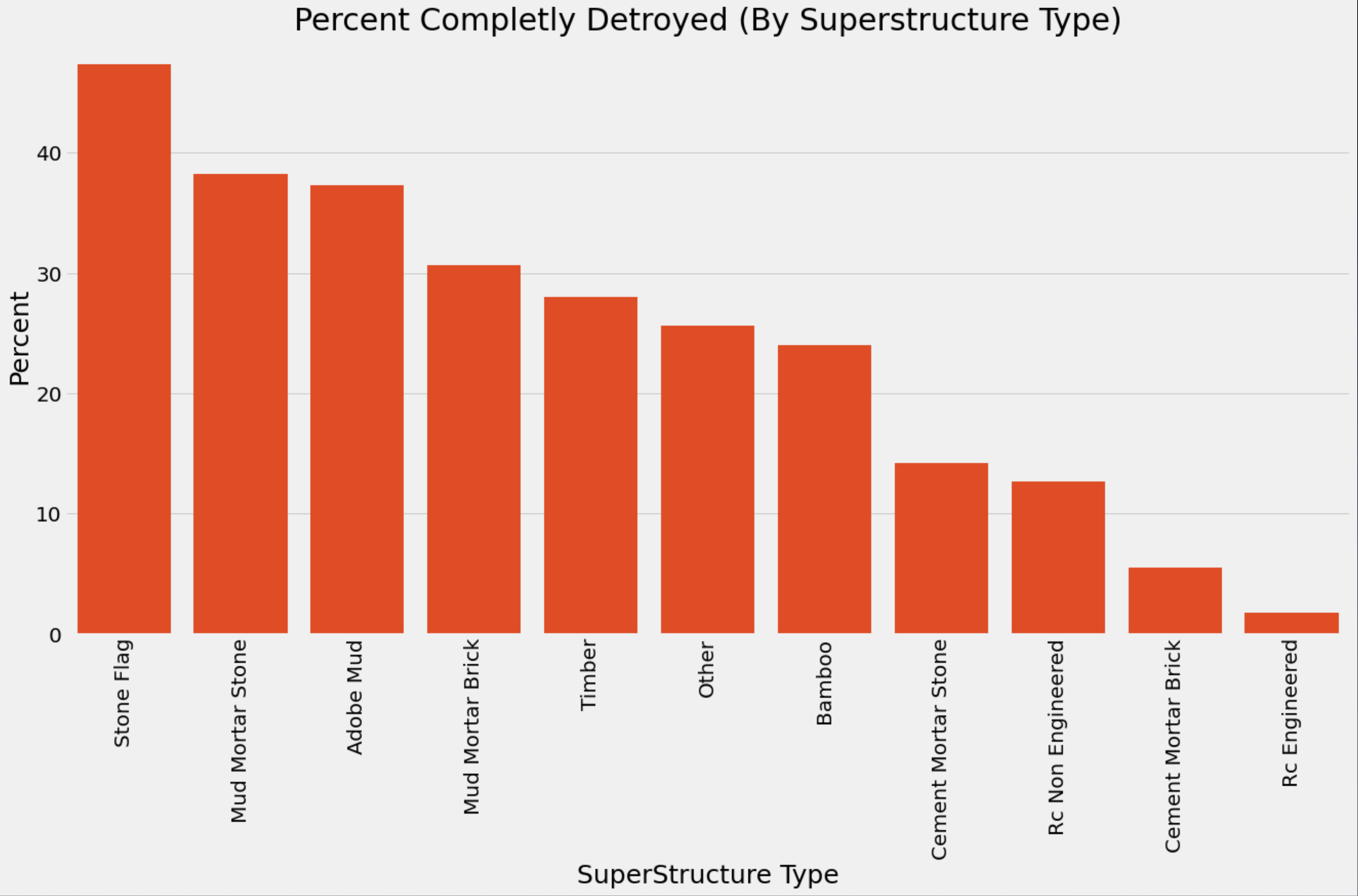


# Number of Floors





# Superstructure

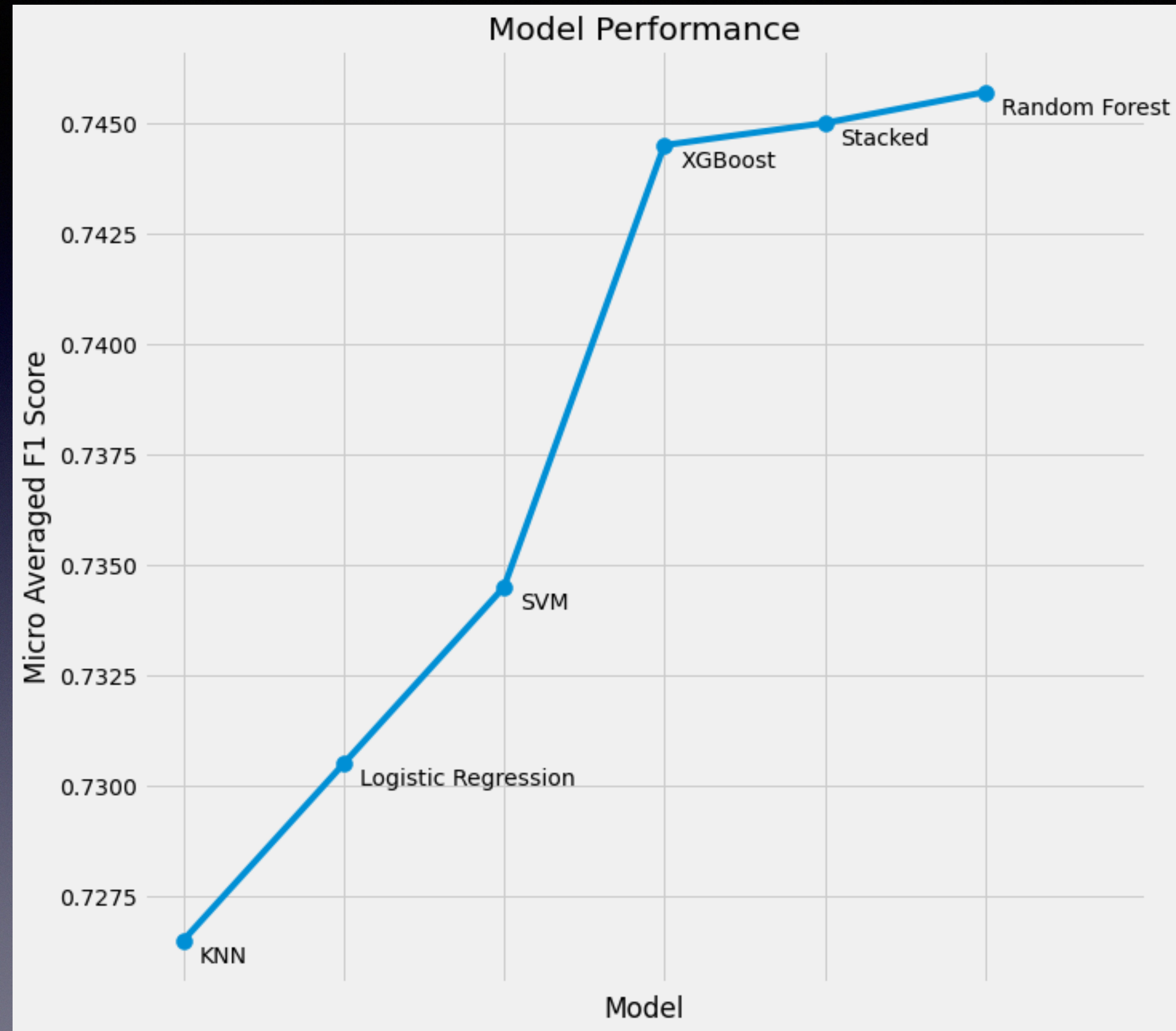




# Model Performance

Best Model Correctly Identifies:

- 53% of Low Damaged Buildings
- 84% of Medium Damaged Buildings
- 64% of Completely Destroyed Buildings





# Future Work



# Questions & Contact

## **Benjamin Bowman**

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