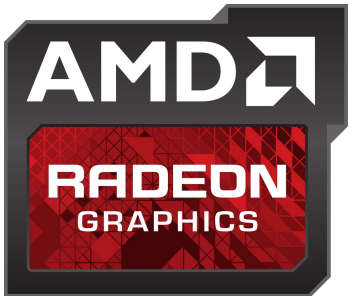
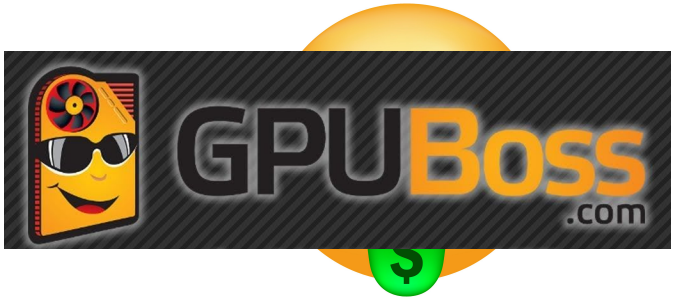
Tackling GPUBoss.com Review Scores

October 12, 2018

Imagine...





Imagine...

GPU Specifications

Feature 1	Feature 2	Feature 3
Feature 4	Feature 5	Feature 6
Feature 7	Feature 8	Feature 9
Feature 10	Fe ure	Feature 12
Feature 13	Feature 14	Feature 15
Feature 16	Feature 17	Feature 18
Feature 19	Feature 20	Feature 21

40+

8.6
Out of 10
GPUBOSS SCORE

Imagine...

GPU Specifications

Feature 1	Feature 2	Feature 3
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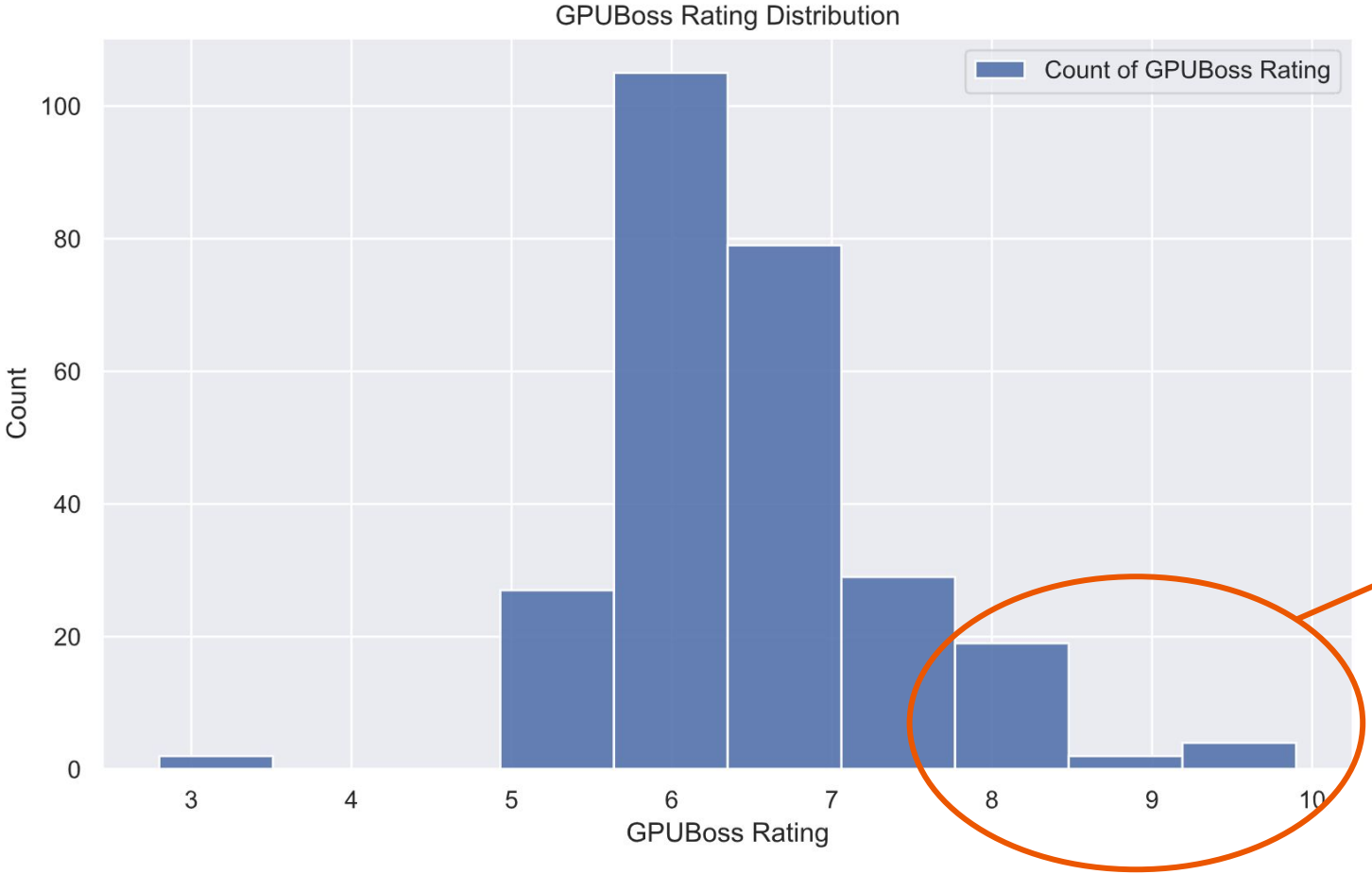
Feature 16	Feature 17	Feature 18
Feature 19	Feature 20	Feature 21

5

8.6
Out of 10
GPUBOSS SCORE

ye5



- Min Score: **2.8**
- Max Score: **9.9**
- Mean: **6.5**

Number of GPUs with score > 8.0: **11**

Goal

Define Graphics Processing Unit (GPU) specifications that result in **higher** review scores from reputable website GPUBoss.com

Approach

Capture:

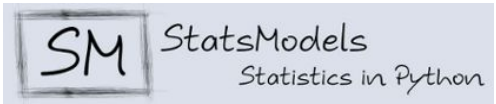
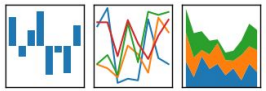
- GPUBoss Review Scores
- Benchmarks
- GPU Specifications

1. Fit
2. Validate
3. Transform

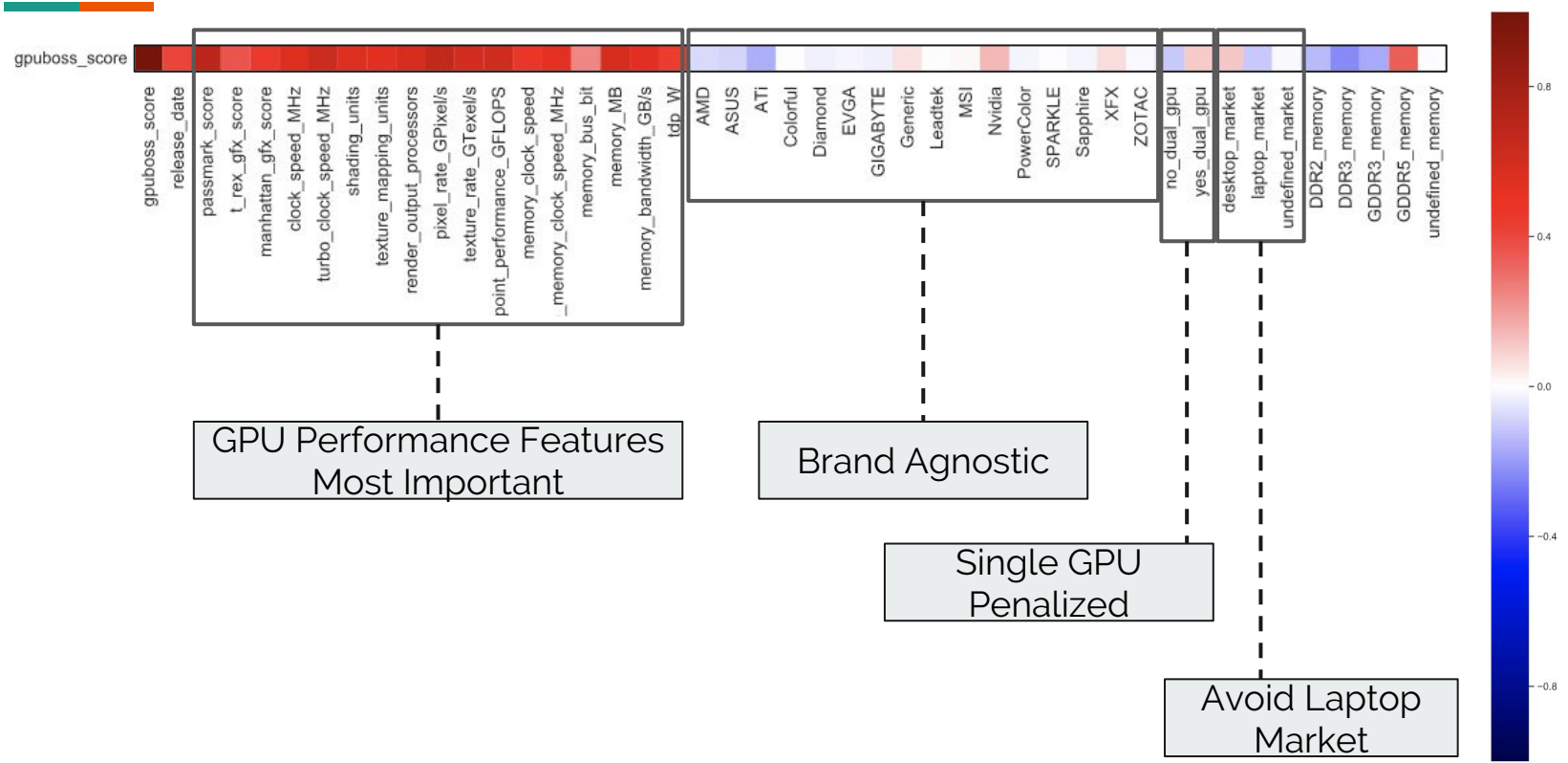
- Feature 1
- Feature 2
- Feature 3
- Feature 4
- Feature 5

Data → Model → Predict

Tools

Tools	Purpose
	• Data Scraping
 pandas $y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$ 	• Model • Regularization • Feature Transformation
matplotlib	• Data Visualization

Correlation Heatmap



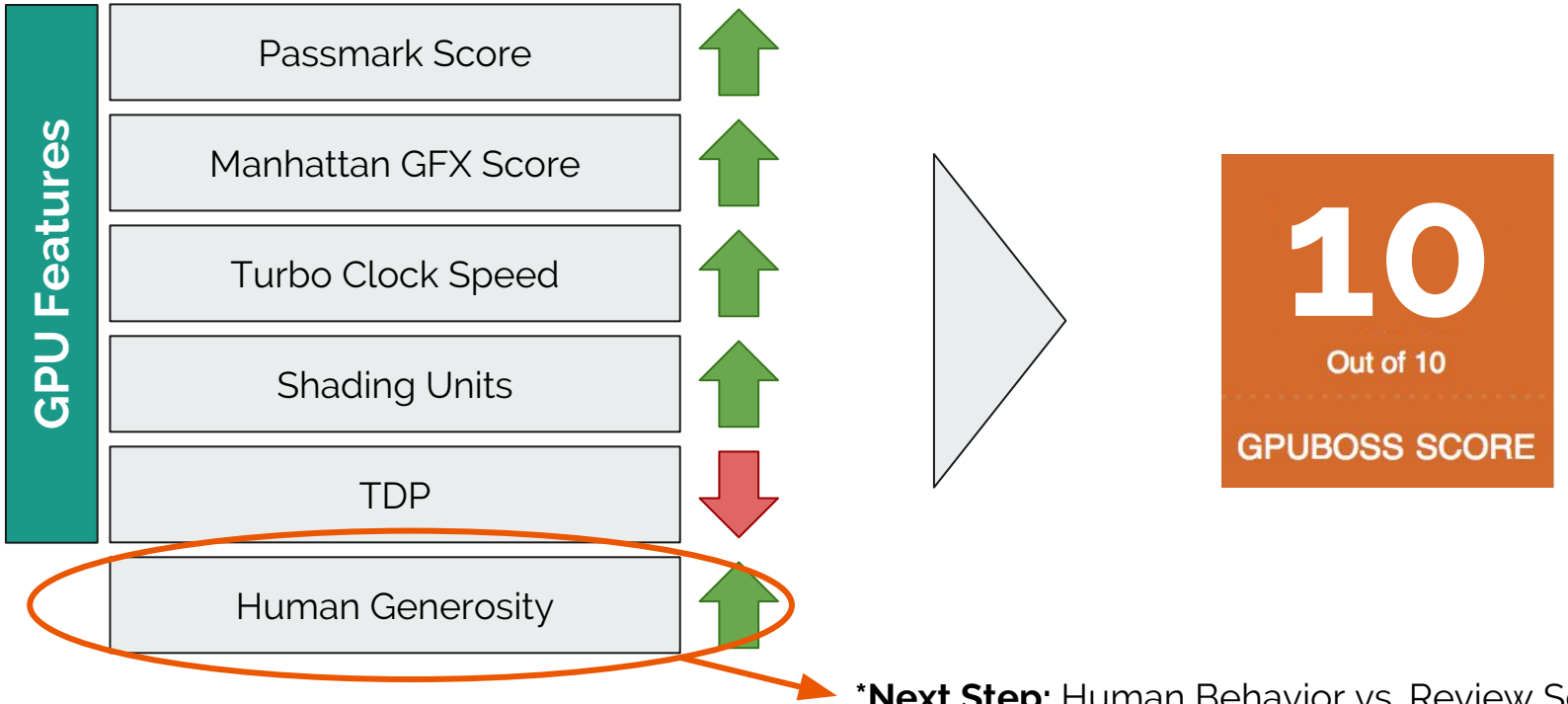
Final Results

GPU Feature	Beta Coef
Passmark Score	1.314e-04
Manhattan GFX Score	5.717e-05
Turbo Clock Speed	1.268e-03
Shading Units	1.411e-04
TDP	-1.789e-03

* all P-value equal 0.020 or less

Model Performance	Score
R-squared	0.47

Conclusion



*__Next Step:__ Human Behavior vs. Review Scores

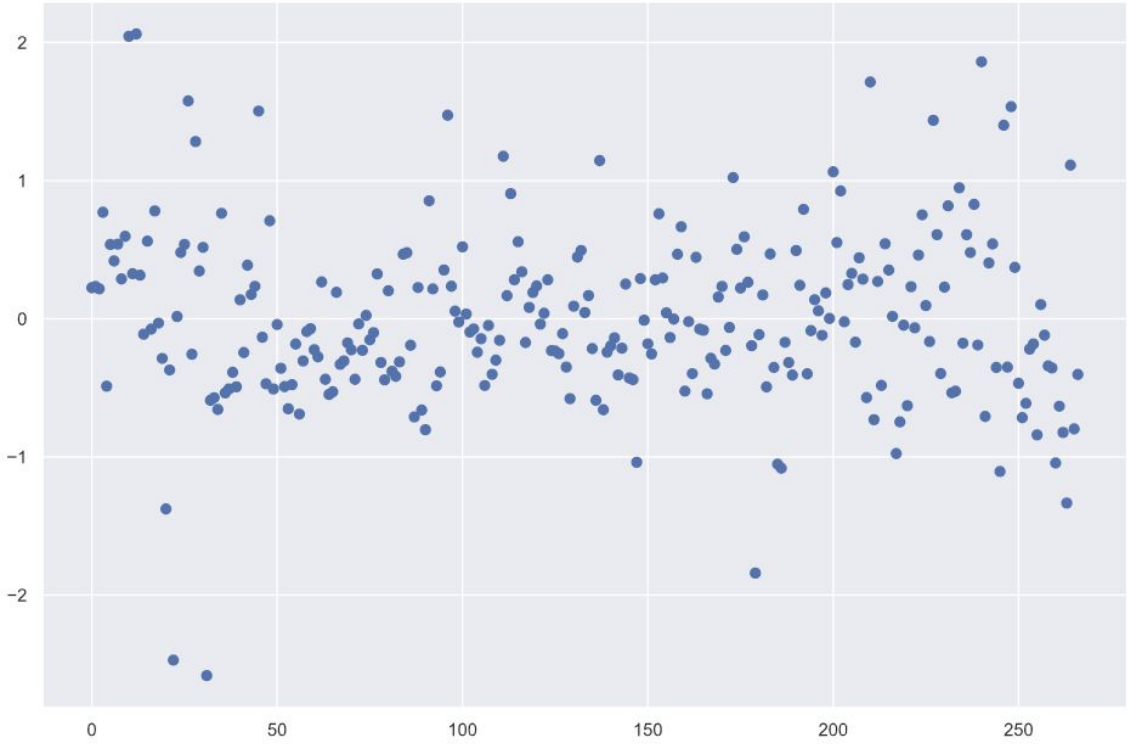
Questions?

Appendix

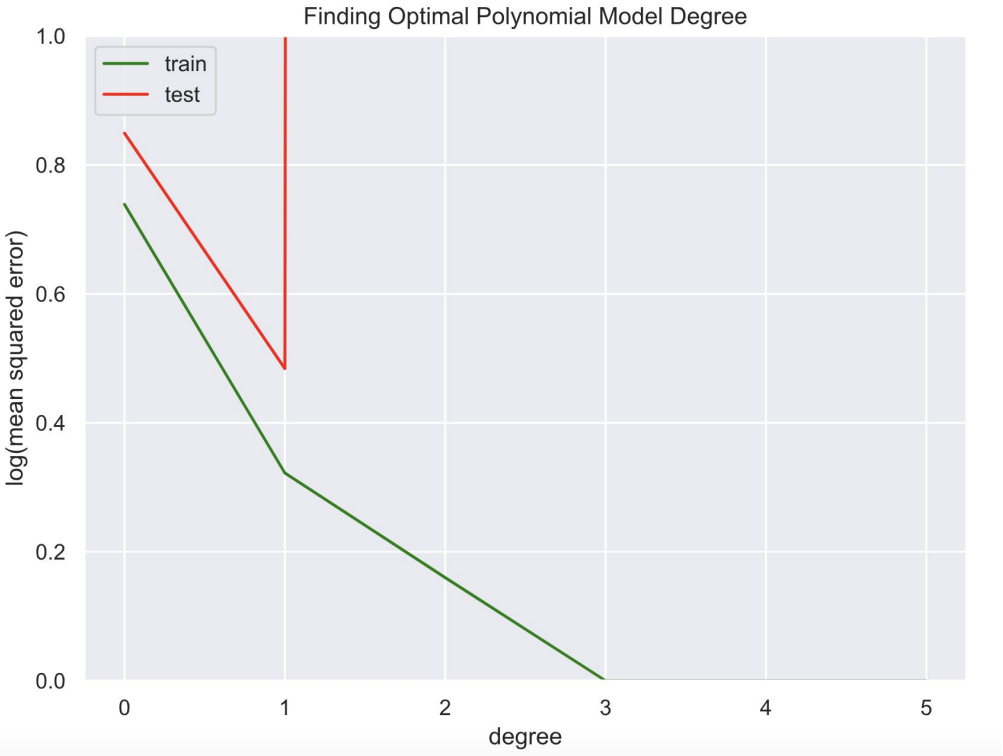
Resources

- GPUBoss website - URL
- Passmark score - URL
- GFX benchmark - URL
- GPU specifications - URL
- TDP - URL
- How High Does R-Squared Need To Be? - URL

Residual Plot



X-axis: row of data

Y-axis: residual (actual value - predicted value)

Polynomial Regression Check