Projection Rating System

Sponsored by Advanced Sports Logic
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The Challenge

- Identify important statistics for fantasy football
- Develop a method to evaluate projection systems
- Based on rigorous statistical methods
- Compare thousands of projections to the actual data
- End with a score
Correlation

- Measures the linear association of two variables
- Ranges from -1 to 1
- Trend Measurement
Correlation Examples

Perfectly Correlated Data

Poorly Correlated Data
Variation Examples

- Low Variation:
  - 5.84

- High Variation:
  - 886.89
Score Components

- “Accuracy” Component – Correlation
  - How close the projection is to the actual data.

- “Variation” Component - Scaled Averaged Variance
  - How significantly the projection system would change its projections over time.
Initial Calibration

Score Vs Percent Error

Projection Score

Percent Error

0% 5% 10% 15% 20% 25% 30% 35%

63.81
44.20
36.10
30.34
25.33
19.18
Progressive Calibration

Score Vs Max Percent Error

Projection Score

Percent Error

- 89.01
- 83.04
- 67.21
- 41.22
- 22.57
- 9.38
## Final Weight Scheme

<table>
<thead>
<tr>
<th>Projection Score</th>
<th>Weighted Average of Scores*50+50 Score</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Draft</td>
<td>AVERAGE(B16:R16)</td>
<td>1</td>
</tr>
<tr>
<td>Preseason 1</td>
<td>AVERAGE(B17:R17)</td>
<td>1</td>
</tr>
<tr>
<td>Preseason 2</td>
<td>AVERAGE(B18:R18)</td>
<td>1</td>
</tr>
<tr>
<td>Preseason 3</td>
<td>AVERAGE(B19:R19)</td>
<td>1</td>
</tr>
<tr>
<td>Preseason 4</td>
<td>AVERAGE(B20:R20)</td>
<td>1</td>
</tr>
<tr>
<td>Variation</td>
<td>AVERAGE(C40:C56)</td>
<td></td>
</tr>
<tr>
<td>Final Accuracy</td>
<td>AVERAGE(B21,C22,D23,E24,F25,G26,H27,I28,J29,K30,L31,M32,N33,O34,P35,Q36)</td>
<td>1</td>
</tr>
<tr>
<td>FA and Variation</td>
<td>Variation x Final Accuracy</td>
<td>3</td>
</tr>
</tbody>
</table>
Recommendations

- Use an SQL Database
- Develop a Program to calculate scores
- Explore different weighting
- Use to improve projections
Questions and Comments

• If you have any questions or comments for us please feel free to speak now.

• If future questions arise please feel free to contact us by e-mail at aslmgp13@wpi.edu