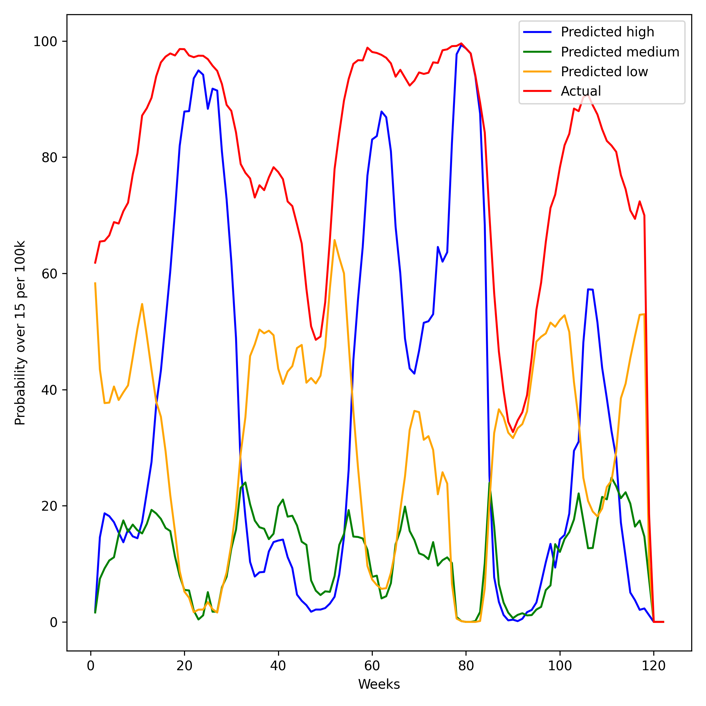
CDC Comparison

*Using High as a predictor for >15 per 100k*

Using the indicators (low, medium, and high risk of COVID-19 surges), we find that there is relatively low correlation between the predicted probability of exceeding hospital capacity and the actual probability.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Accuracy | Sensitivity | Specificity | PPV | NPV |
| Simple predictor | 0.6103669190448456 | 0.4690968718466196 | 0.8366501666835033 | 0.8214246272777471 | 0.4959281437125749 |
| Optimized decision tree | 0.7250375195580675 | 0.7437658653128266 | 0.6915196864421878 | 0.8118548299467565 | 0.6012702346836031 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

If we use the raw data, rather than the converted metrics, we can optimize a decision tree ourselves:

A diagram of a number of samples

Description automatically generated