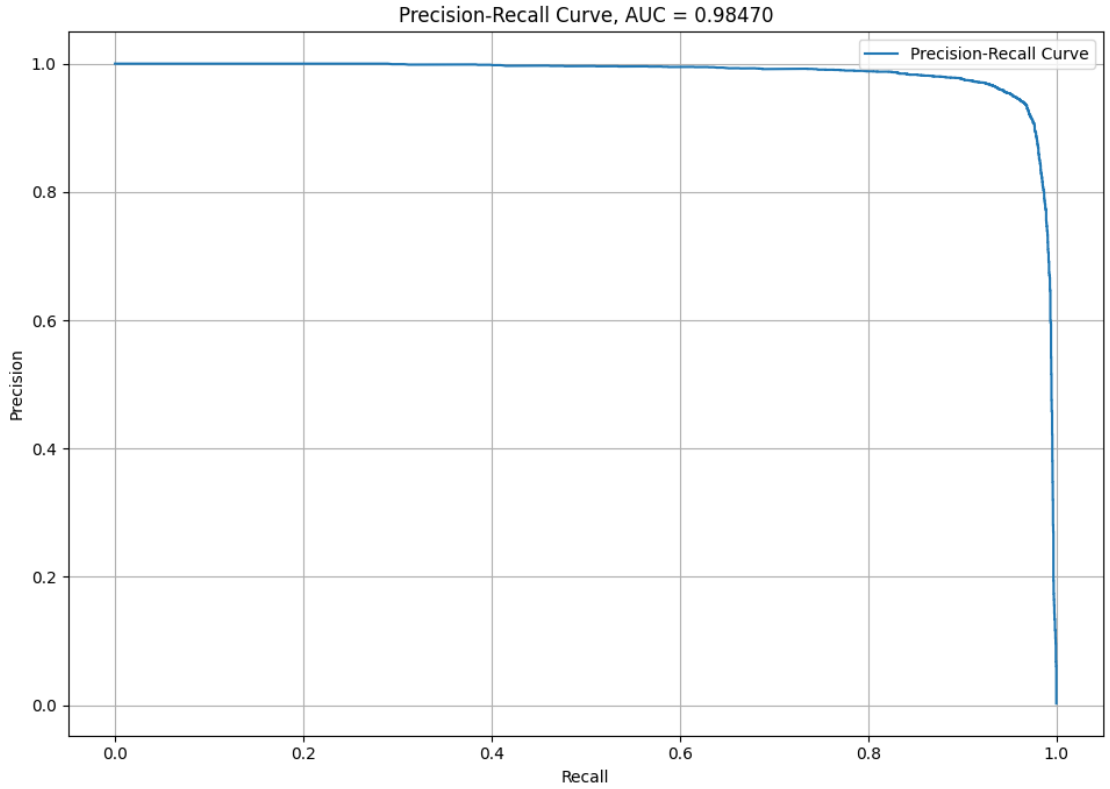
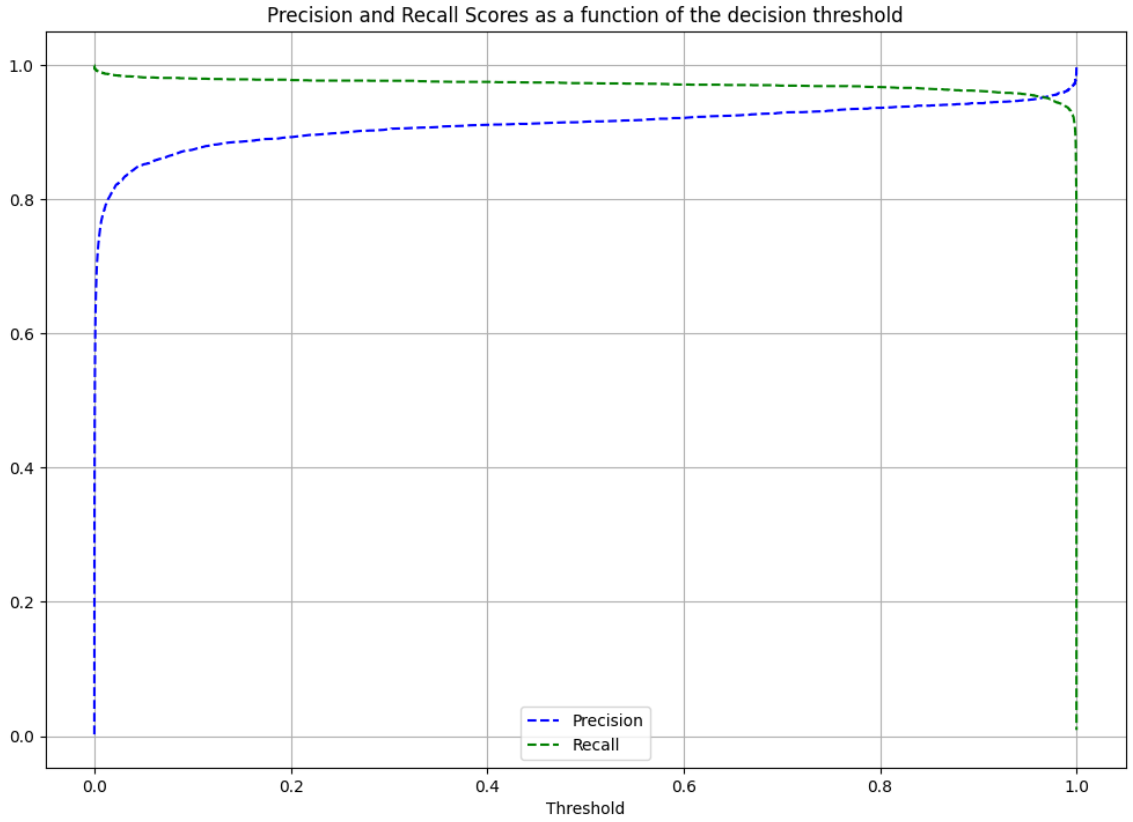
XGBoost Performance

Precision Recall Curve



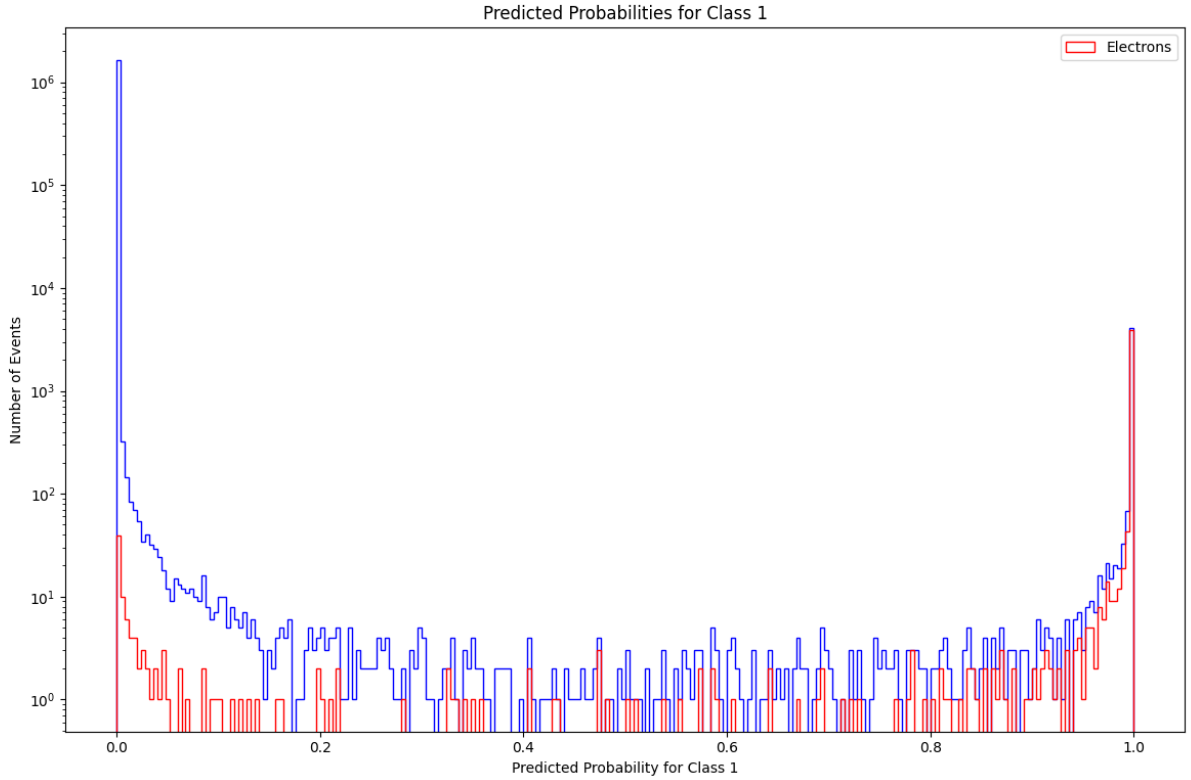
For a given threshold the precision and recall

- precision recall thresholds
- 504084 0.998776 0.383189 0.999994
- 504085 0.998767 0.380371 0.999994
- 504086 0.998758 0.377553 0.999994
- 504087 0.998748 0.374501 0.999995
- 504088 0.998732 0.369805 0.999995
- 504089 0.998718 0.365814 0.999995
- 504090 0.998708 0.362996 0.999995
- 504091 0.998692 0.358535 0.999995
- 504092 0.998682 0.355717 0.999995
- 504093 0.998661 0.350317 0.999995
- 504094 0.998643 0.345621 0.999995
- 504095 0.998628 0.341864 0.999995
- 504096 0.998617 0.339047 0.999996
- 504097 0.998595 0.333646 0.999996
- 504098 0.998573 0.328716 0.999996
- 504099 0.998547 0.322611 0.999996



- Decided on a threshold of 0.9999969, but probably by tweaking a bit could find one with same purity but higher recall.

Predicted probabilities for class 1 (electrons) plt.yscale('log')



Confusion Matrix (Actual values)