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Radiogenomic Prediction of Breast Cancer Subtypes Using the TCGA Dataset

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Biomedical Data Science
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- 2 Methodology
- 3 Model development
- 4 Results and discussion
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Motivation

Objectives

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Dataset description

Data preprocessing

Feature selection

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Data scaling and resampling

Radiomic features-based model

Radiomic model with clinical data

Radiomic model with multigenic assays

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Comparison of model performance

Impact of clinical data inclusion

Impact of multigenic assays on prediction

Detailed performance of the best model

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Key findings

Study limitations

Suggestions for future work