

MLPC 2024 Task 3: Classification

Team Imported

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Evaluation Criteria for Hyperparameter Settings and Algorithms

- Evaluation Criterion:
 - Metric Maximized: Validation accuracy.
 - Reason: To correctly classify every single word, not just minimize false negatives.
 - Additional Metrics: Recall, precision, and F1 score were also monitored for insights into model performance and class imbalances.

Baseline Performance

- Baseline Performance:
 - Baseline Model: Naive Bayes classifier.
 - Initial comparison with other models.
 - Worst performing model for context.
 - Validation Accuracy: 46%.
 - Performance Insight: Slightly better than random, indicating features captured are somewhat informative but with room for improvement.

Expected Performance

- Best Possible Performance:
 - Complex Models: Expected to perform significantly better than the baseline.
 - Example Expectation: CNN with optimal parameter tuning could achieve around 90% accuracy.