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Static Analysis Comparison

# Testing Against 600 Nonvulnerable Files, 144 Vulnerable Files

## IVS/BOW Classifier Performance

### Confusion Matrix

|  |  |  |
| --- | --- | --- |
|  | True Positive | True Negative |
| Predicted Positive | 133 | 4 |
| Predicted Negative | 11 | 594 |

### Results

|  |  |
| --- | --- |
| Accuracy | 0.9798 |
| Precision | 0.9708 |
| Recall (Sensitivity) | 0.9236 |
| F1-Score | 0.9466 |

## RIPS Performance

### Confusion Matrix

|  |  |  |
| --- | --- | --- |
|  | True Positive | True Negative |
| Predicted Positive | 1 | 0 |
| Predicted Negative | 143 | 600 |

### Results

|  |  |
| --- | --- |
| Accuracy | 0.8078 |
| Precision | 1.0000 |
| Recall (Sensitivity) | 0.0069 |
| F1-Score | 0.0749 |

## AWAP Performance

### Confusion Matrix

|  |  |  |
| --- | --- | --- |
|  | True Positive | True Negative |
| Predicted Positive | 2 | 0 |
| Predicted Negative | 142 | 600 |

### Results

|  |  |
| --- | --- |
| Accuracy | 0.8091 |
| Precision | 1.0000 |
| Recall (Sensitivity) | 0.0139 |
| F1-Score | 0.0274 |

## Yasca Performance

### Confusion Matrix

|  |  |  |
| --- | --- | --- |
|  | True Positive | True Negative |
| Predicted Positive | 27 | 22 |
| Predicted Negative | 117 | 578 |

### Results

|  |  |
| --- | --- |
| Accuracy | 0.8132 |
| Precision | 0.5510 |
| Recall (Sensitivity) | 0.1875 |
| F1-Score | 0.2798 |