**Time Series Model:**

|  |  |
| --- | --- |
| **Hyperparameter** | **Value** |
| Regularization | L2 |
| Penalty Term | 0.01 |
| Learning Rate | 0.0001 |
| Optimizer | adam |
| Loss | Binary Cross Entropy |
| Activation Function | Sigmoid |
| Layers | LSTM, GRU |
| Dropout | N/A |
| Batch Size | 128 |
| Epochs | 100 |

**Multimodal:**

|  |  |
| --- | --- |
| **Hyperparameter** | **Value** |
| Regularization | L2 |
| Penalty Term | 0.01 |
| Learning Rate | 0.001 |
| Optimizer | adam |
| Decay | 0.01 |
| Loss | Binary Cross Entropy |
| Activation Function | Sigmoid |
| Layers | GRU |
| Dropout | 0.2 |
| Batch Size | 64 |
| Epochs | 100 |

**Proposed:**

|  |  |
| --- | --- |
| **Hyperparameter** | **Value** |
| Regularization | L2 |
| Penalty Term | 0.01 |
| Learning Rate | 1e-3 |
| Optimizer | adam |
| Decay | 0.01 |
| Loss | Binary Cross Entropy |
| Activation Function | Sigmoid |
| Layers | GRU |
| Dropout | 0.2 |
| Batch Size | 64 |
| Epochs | 100 |