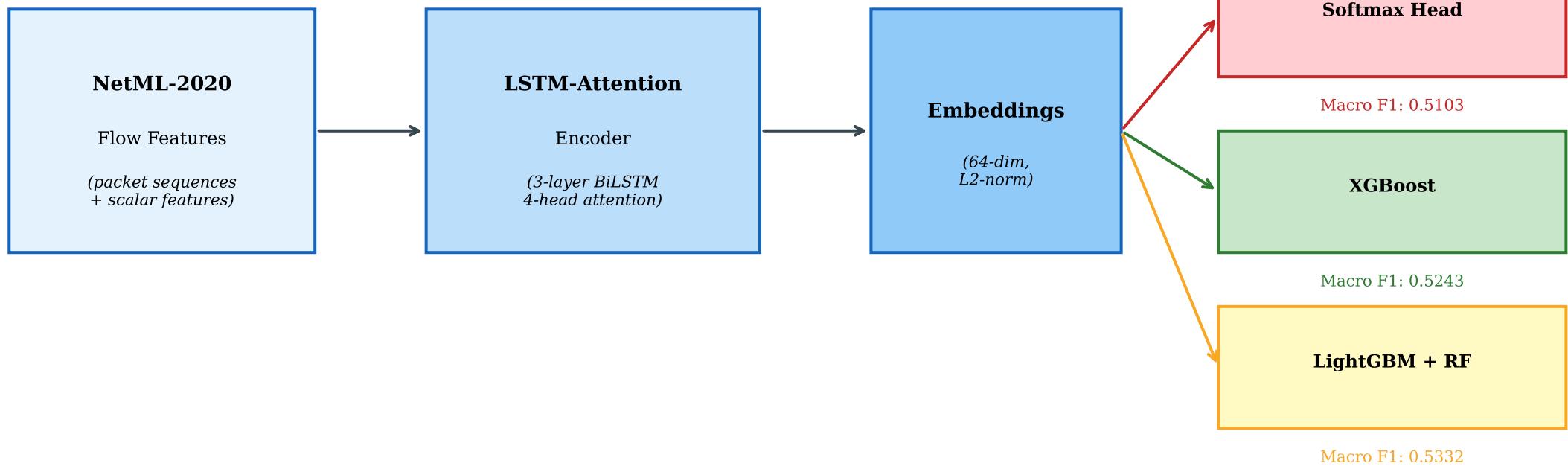


# **LSTM-Attention Hybrid Classification Architecture**



## Model Variants:

- LSTM-Attn (Softmax): End-to-end neural classifier
- LSTM-Attn + XGBoost: Embeddings → gradient boosting
- LSTM-Attn + Ensemble: Embeddings → LightGBM + RF voting

→ 21 Traffic Classes