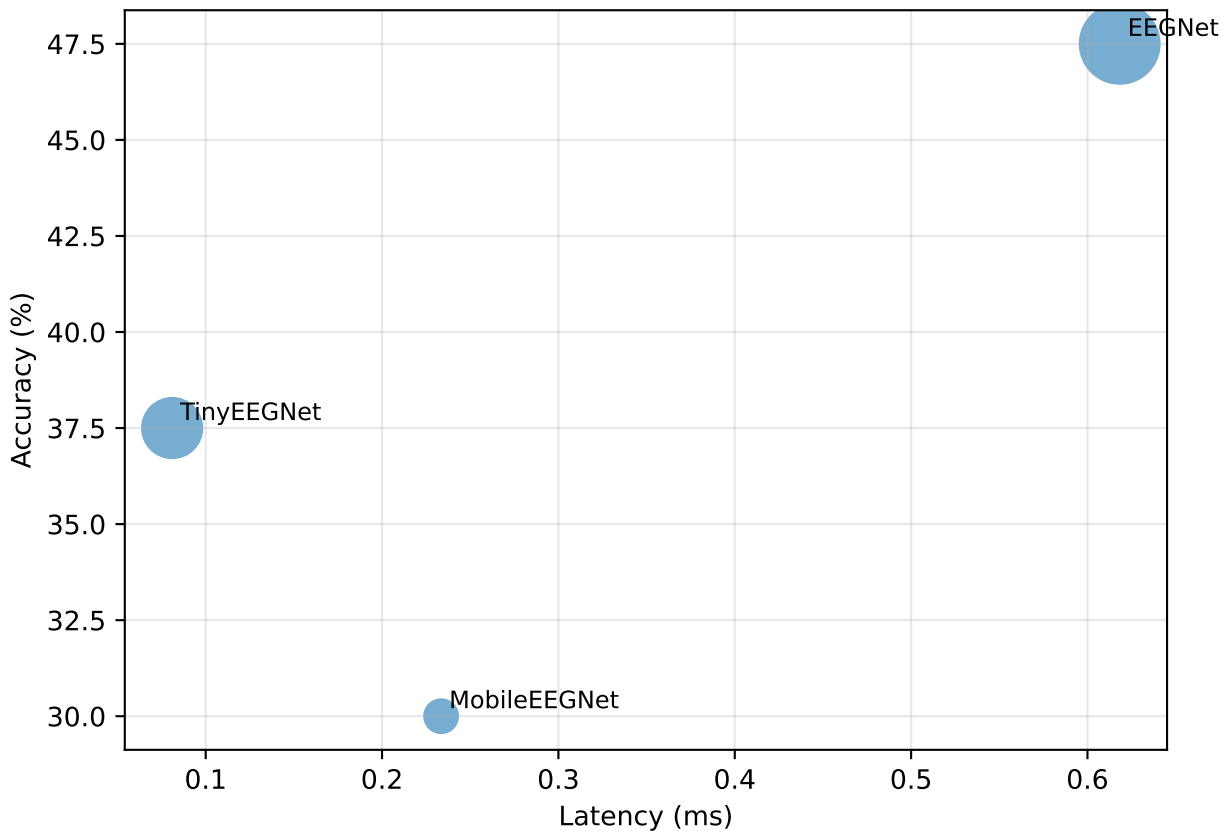


Neural Decoder Benchmark Report

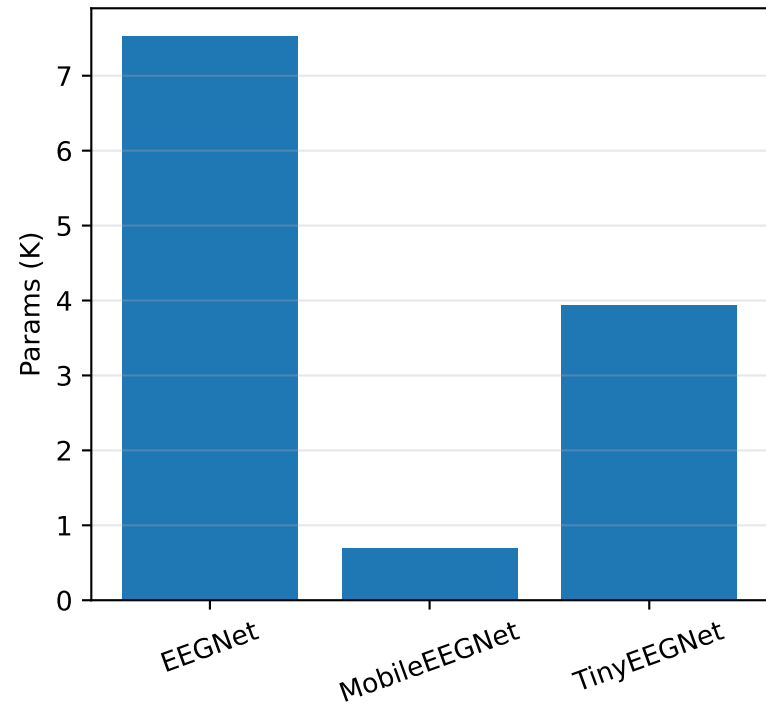
Contents:

- Phase 1: Speed vs Accuracy vs Size
- Compression: Pruning & Quantization Trade-offs
- Streaming: Window/Overlap Latency Analysis

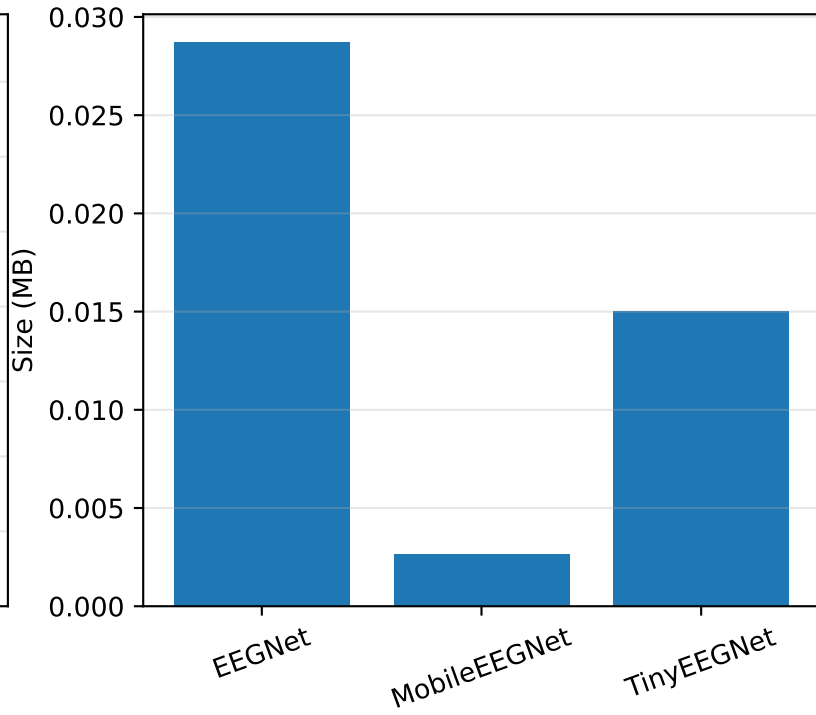
Phase 1: Speed vs Accuracy (bubble \propto size MB)



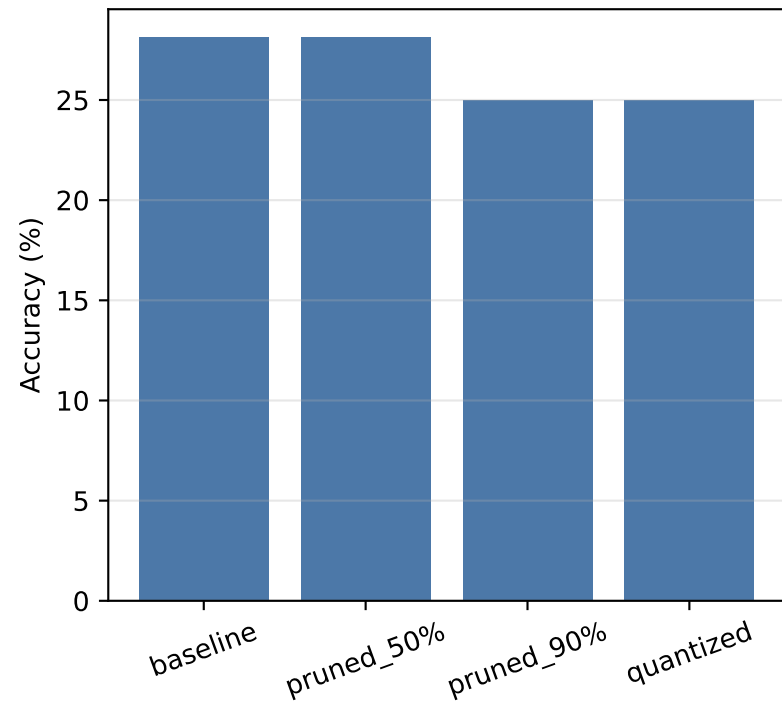
Model Parameters



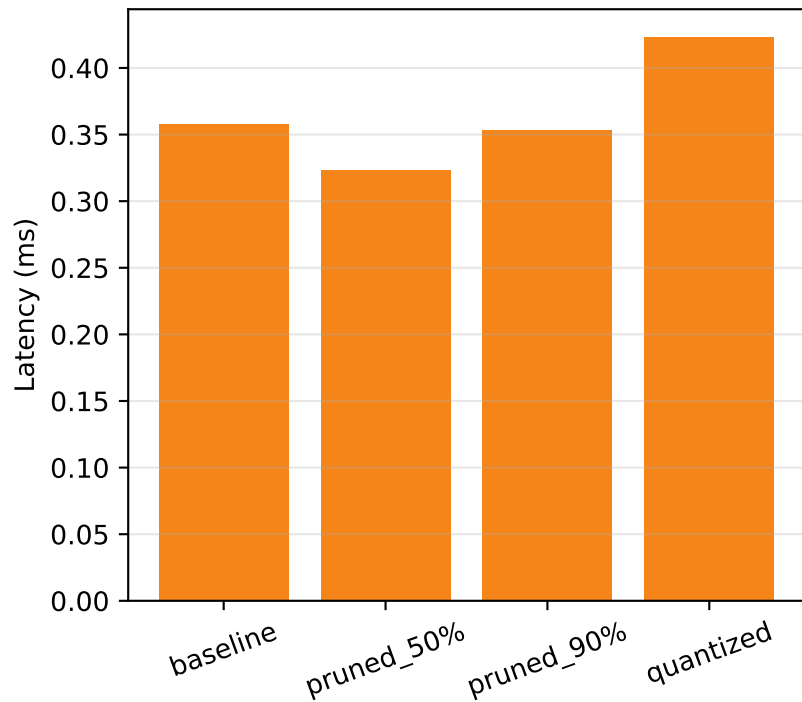
Model Size



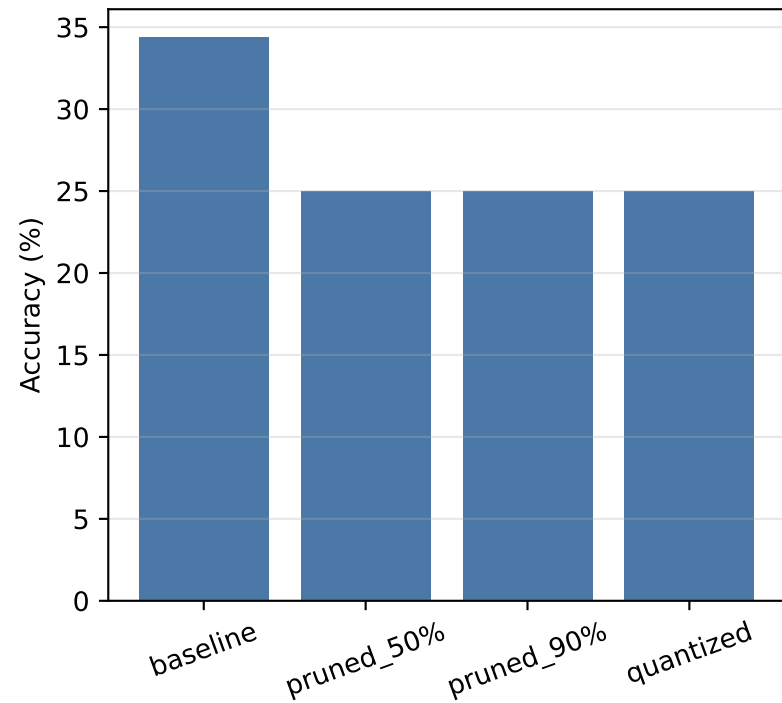
EEGNet - Accuracy vs Compression



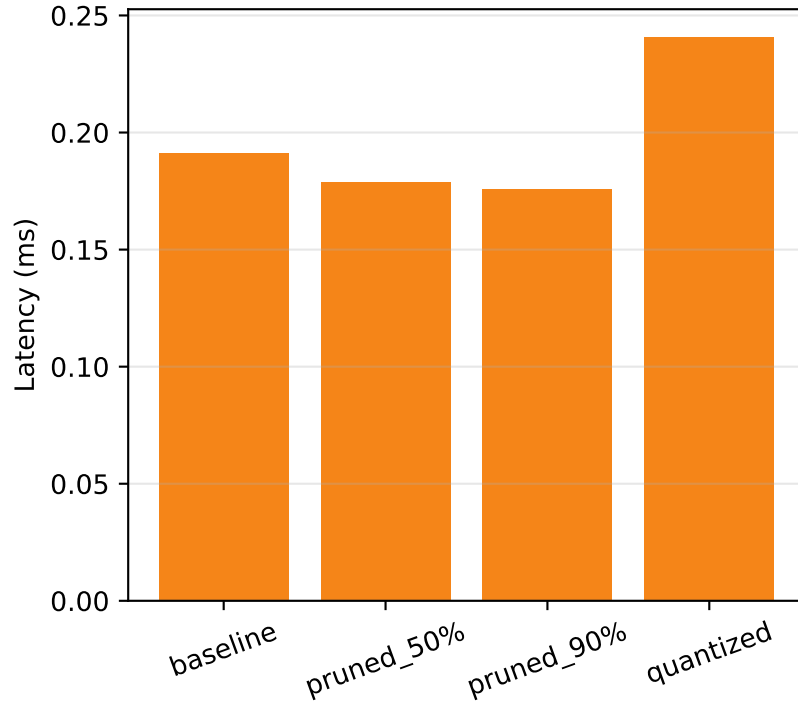
EEGNet - Latency vs Compression



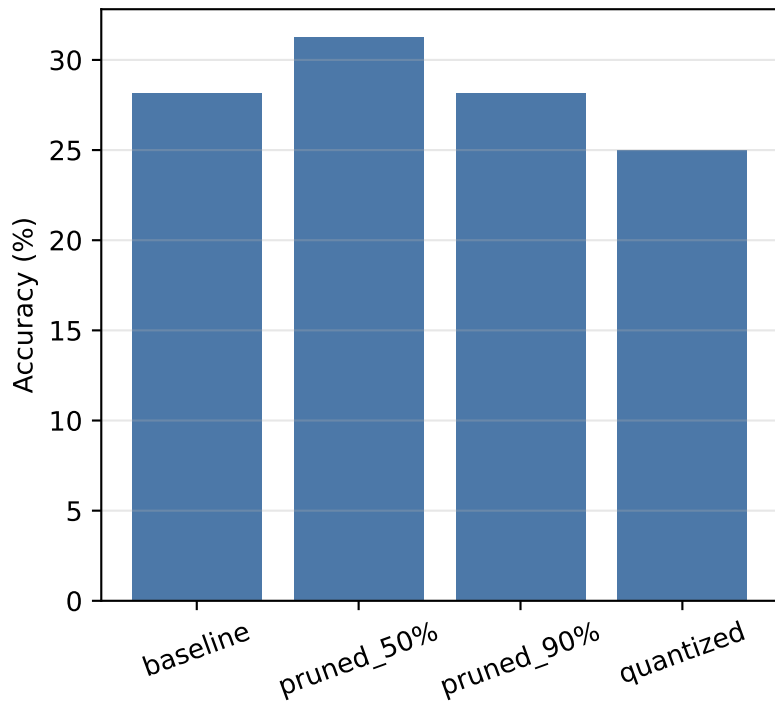
MobileEEGNet - Accuracy vs Compression



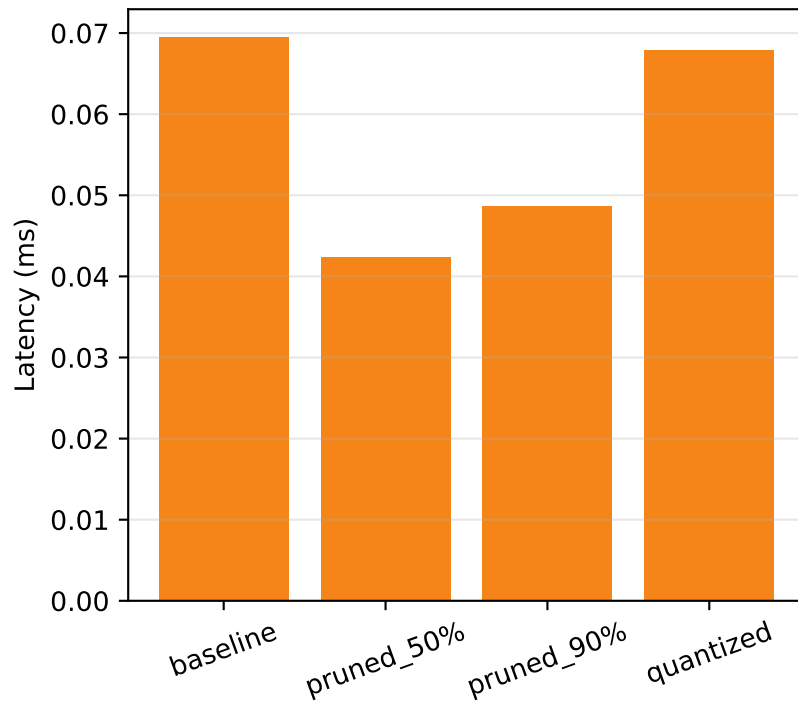
MobileEEGNet - Latency vs Compression



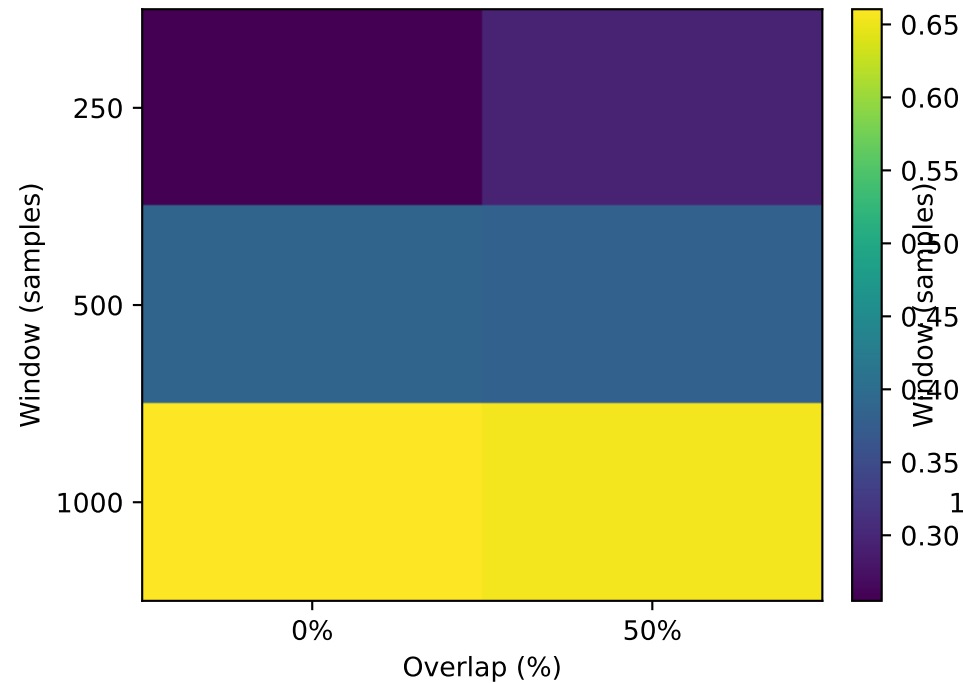
TinyEEGNet - Accuracy vs Compression



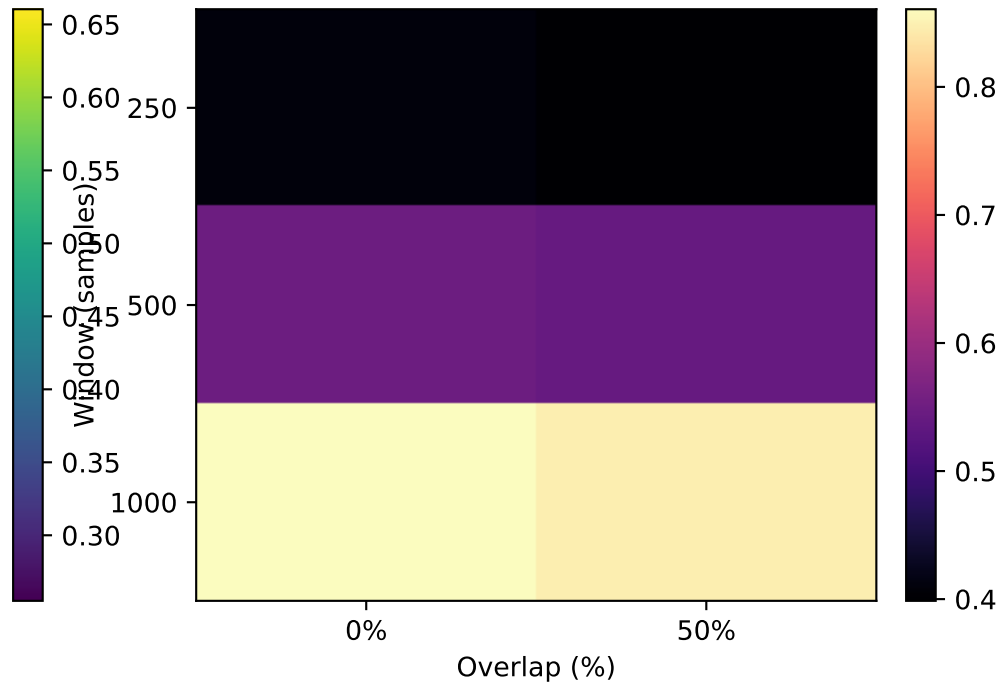
TinyEEGNet - Latency vs Compression



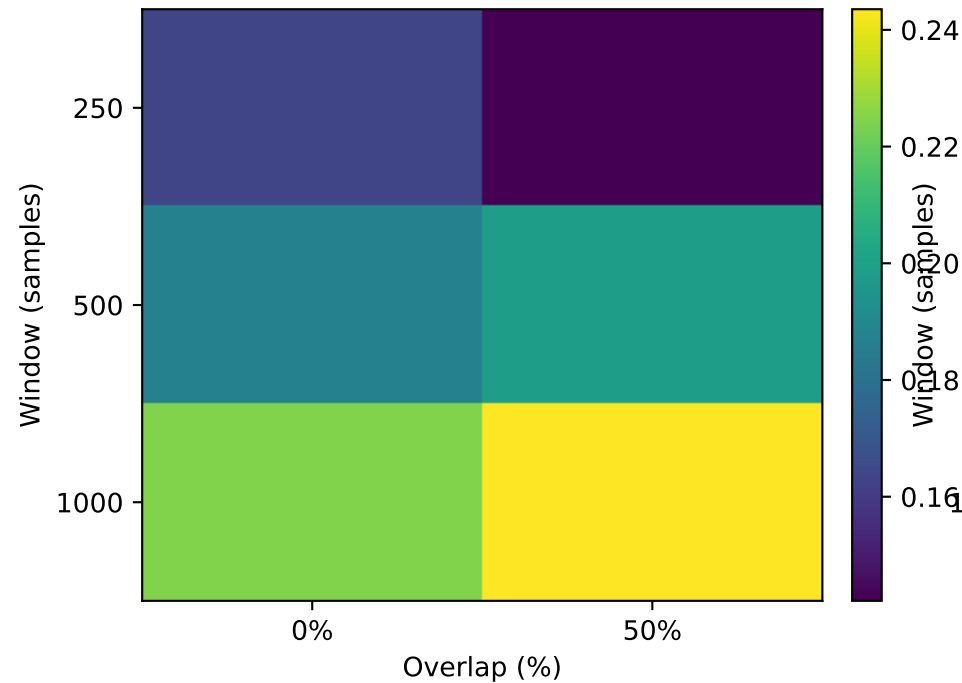
EEGNet - Streaming Mean Latency (ms)



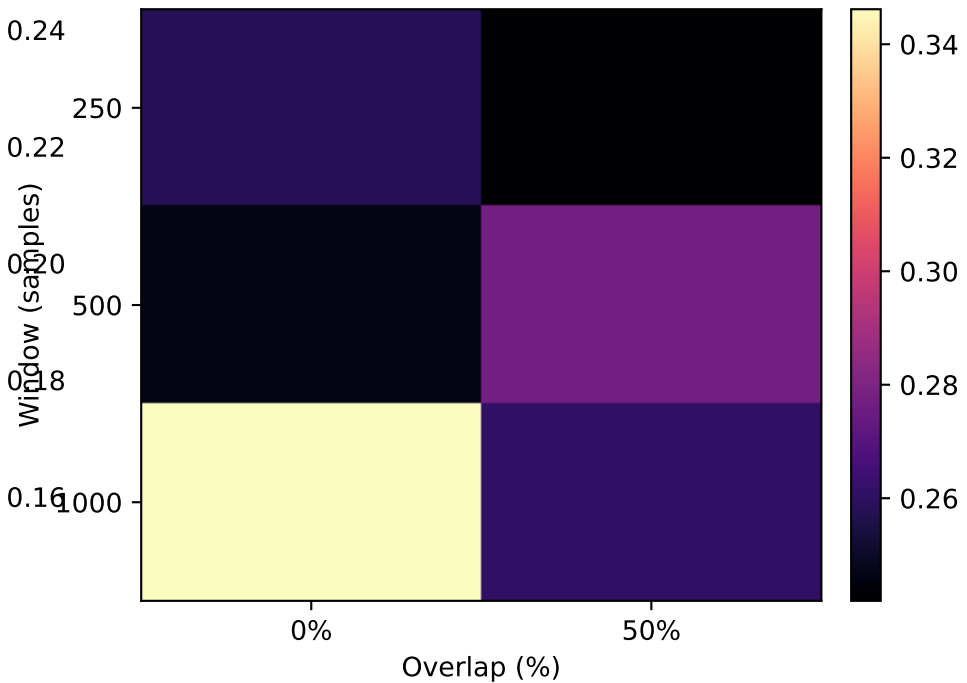
EEGNet - Streaming P95 Latency (ms)



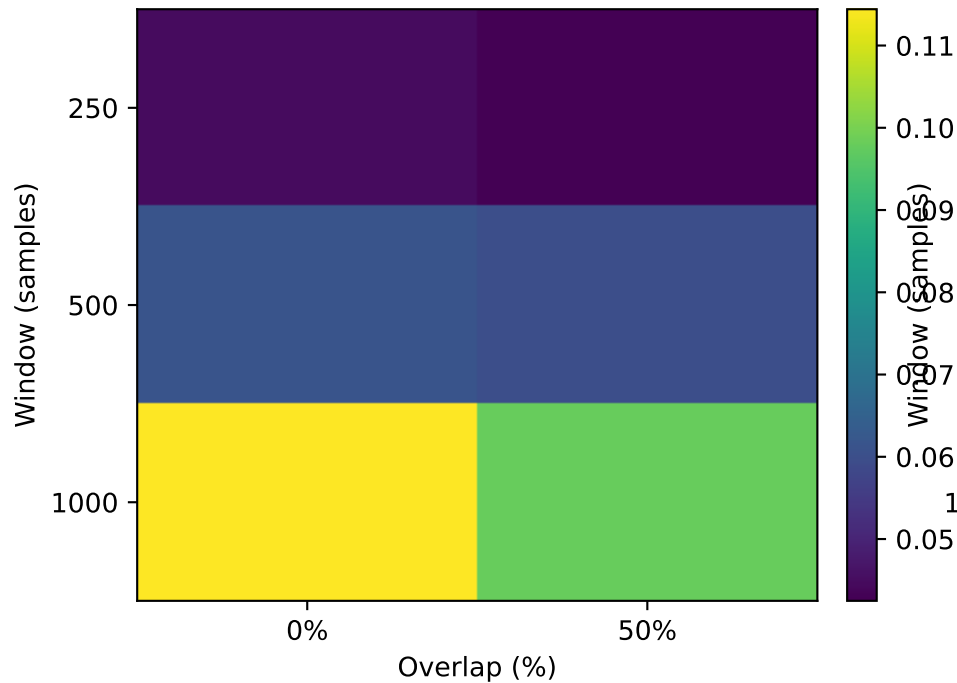
MobileEEGNet - Streaming Mean Latency (ms)



MobileEEGNet - Streaming P95 Latency (ms)



TinyEEGNet - Streaming Mean Latency (ms)



TinyEEGNet - Streaming P95 Latency (ms)

