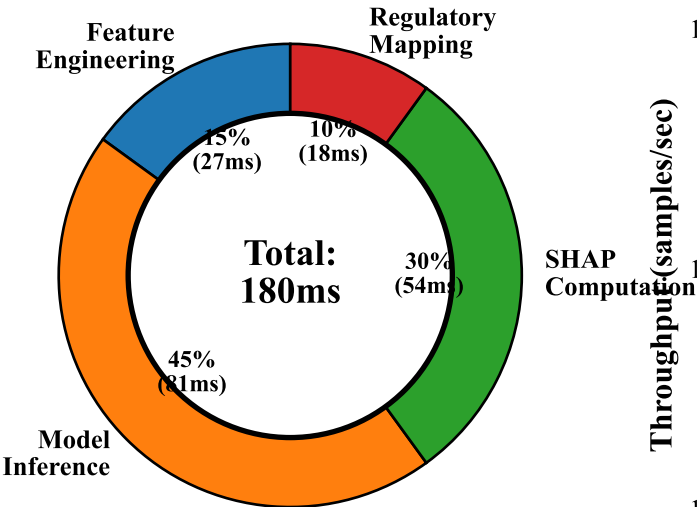
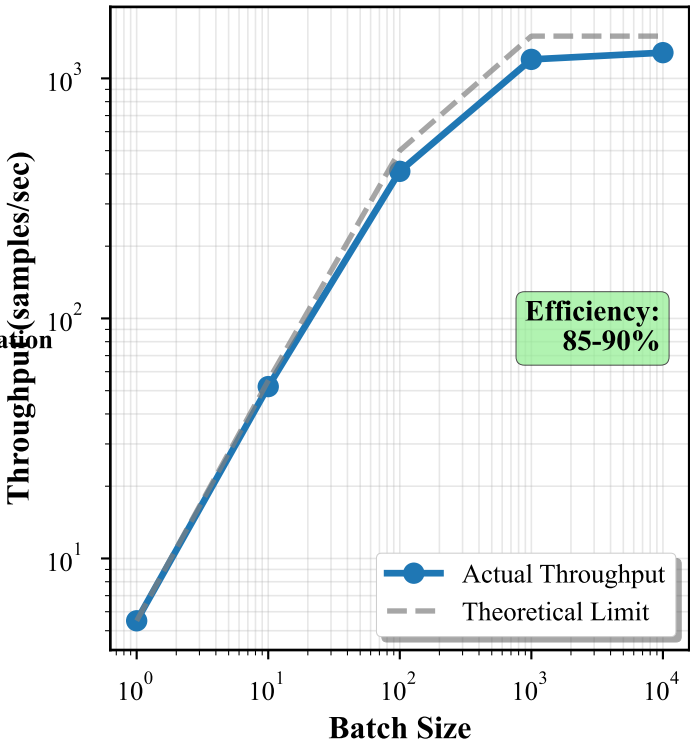


Figure 8: Computational Performance Analysis

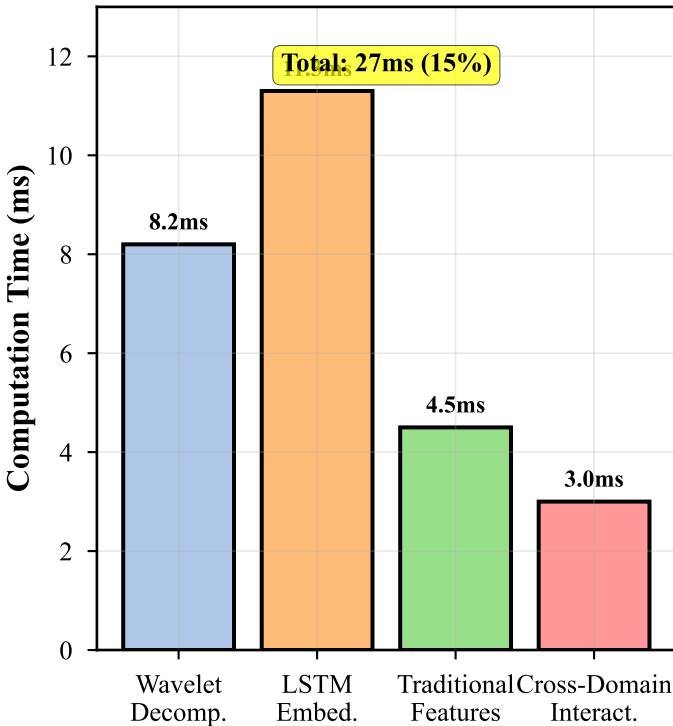
(a) Latency Breakdown (<200ms)



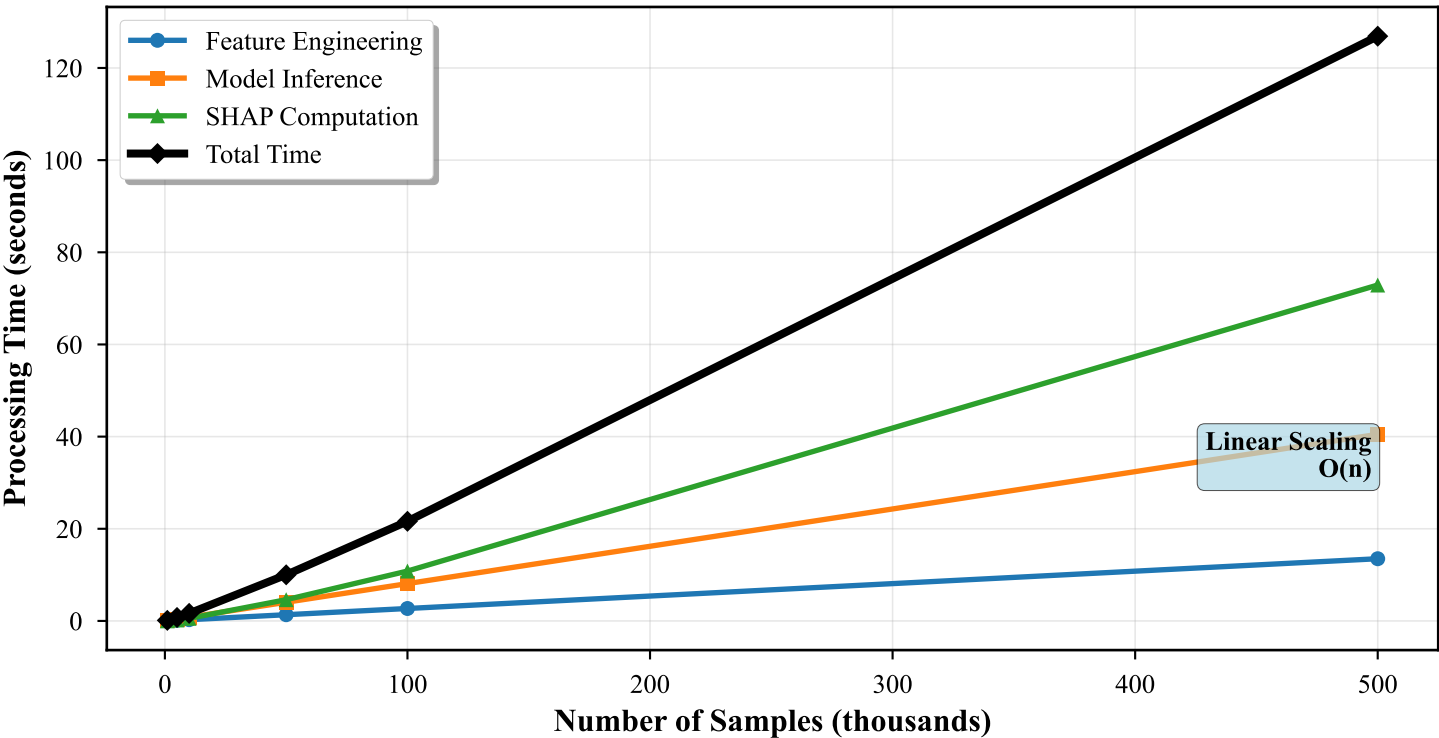
(b) Batch Processing Throughput



(c) Feature Engineering Efficiency



(d) Scalability Analysis



(e) Production Deployment Metrics

Metric	Value	Target
Latency (p50)	156ms	<200ms <input type="checkbox"/>
Latency (p95)	187ms	<200ms <input type="checkbox"/>
Latency (p99)	198ms	<200ms <input type="checkbox"/>
Throughput	1200/s	>1000/s <input type="checkbox"/>
CPU Usage	68%	<80% <input type="checkbox"/>
Memory	2.1GB	<4GB <input type="checkbox"/>
Availability	99.95%	>99.9% <input type="checkbox"/>