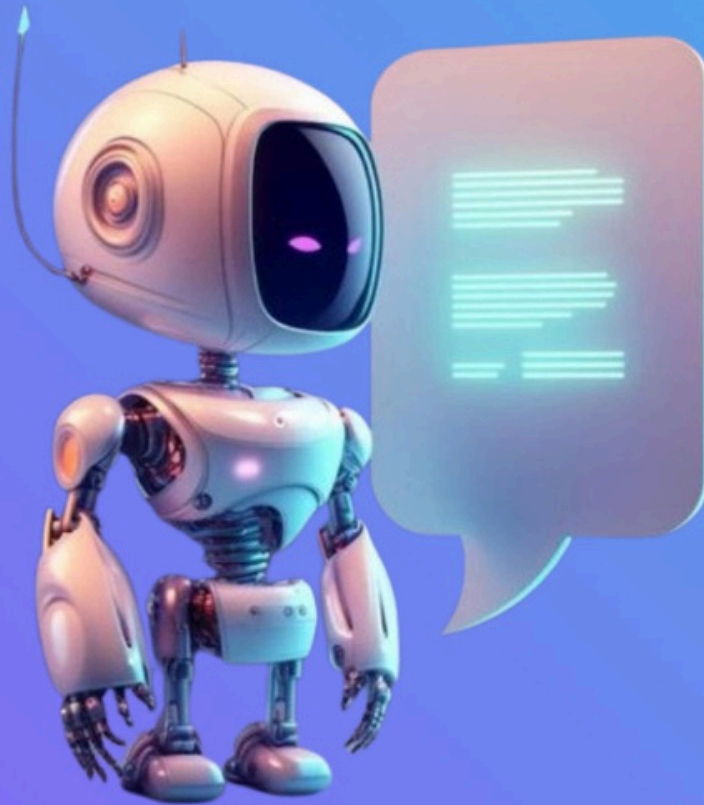


# AI CHATBOT

Analysis Dashboard



 Performance Analysis

 Domain Comparison

 Load Analysis

 Optimization Insights

AI Chatbot Analysis

Over view

Domain Comparison

Load Analysis

Optimization Insights

Performance Analysis



🎯 AvgResponseAccuracy (%)

85.24

📊 PerformanceEfficiency Score

21.84

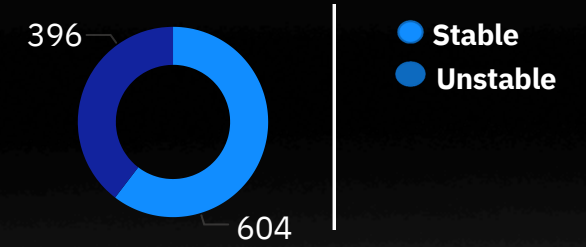
🕒 Avg Latency (ms)

553

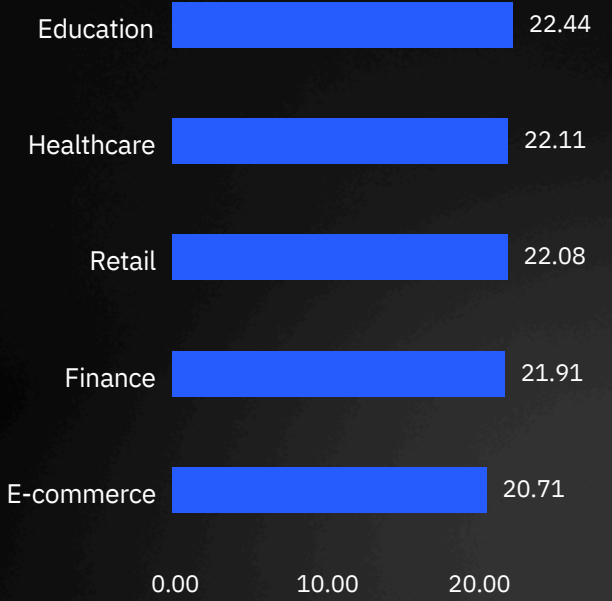
🔄 Total Unique Models

100

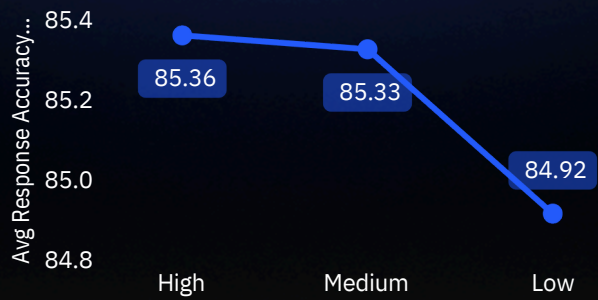
Model Performance Consistency



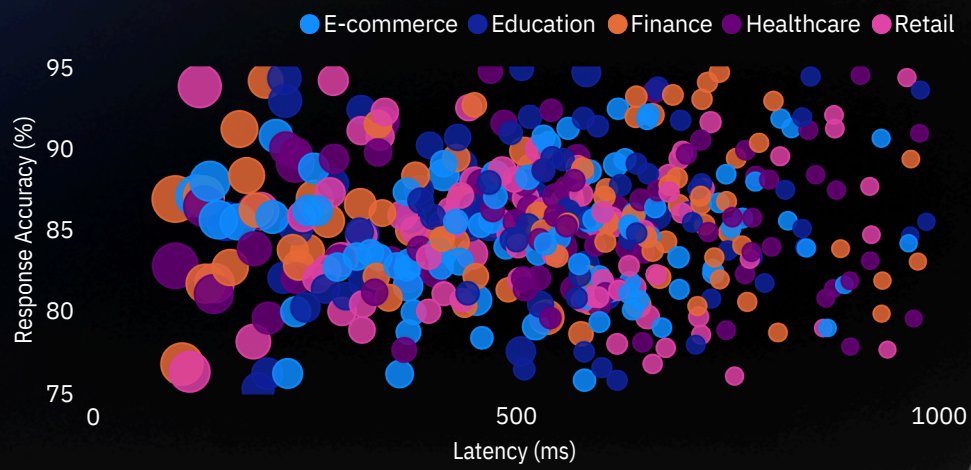
Performance Efficiency Score by Domain



Performance Stability Across Latency Levels

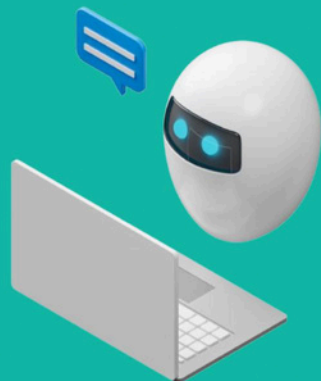


Accuracy vs Latency by Domain





## Domain Comparison



### Top Performing Domain



**Education**

Top Performing Domain

**0.22**

Top Domain Efficiency

### Highest Latency Domain



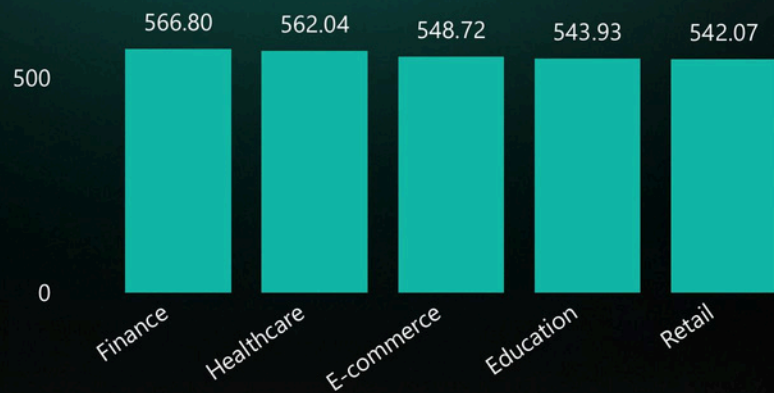
**Finance**

Highest Latency Domain

**566.80**

Highest Domain Latency

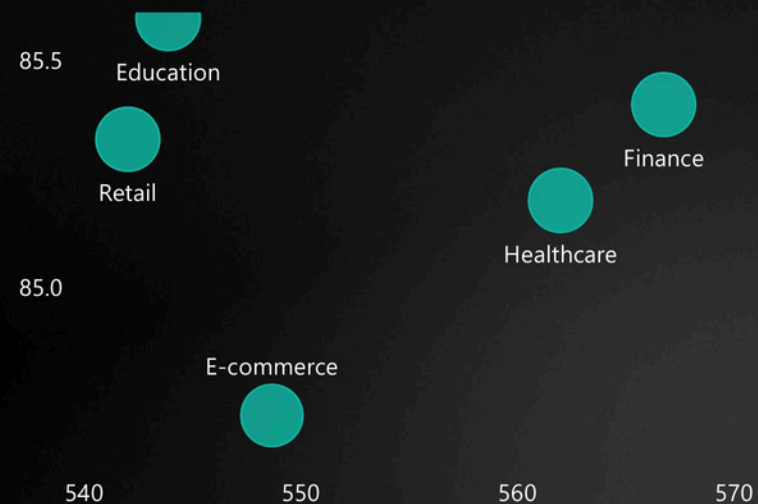
### Average Latency by Domain (ms)



### Overall Performance Efficiency by Domain



### Domain-Level Accuracy vs Latency Trade-off





Load Analysis



Stress Test Pass Rate

2914.11%

Stress\_Test\_Pass

Accuracy Loss

-0.48

Accuracy\_Degradation

High Load Success %

5306.75%

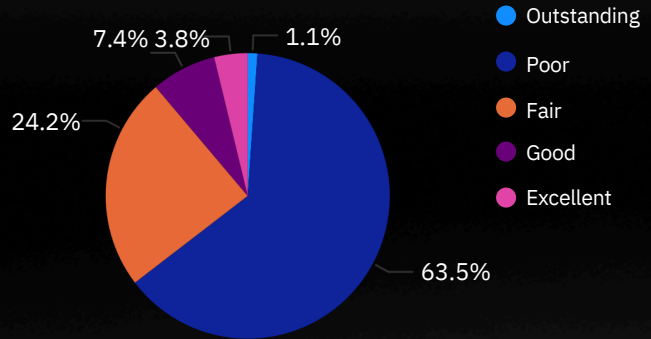
Success\_Rate\_HighLoad

Latency Increase %

0.02

Latency\_Increase\_Pct

Efficiency Rating Distribution



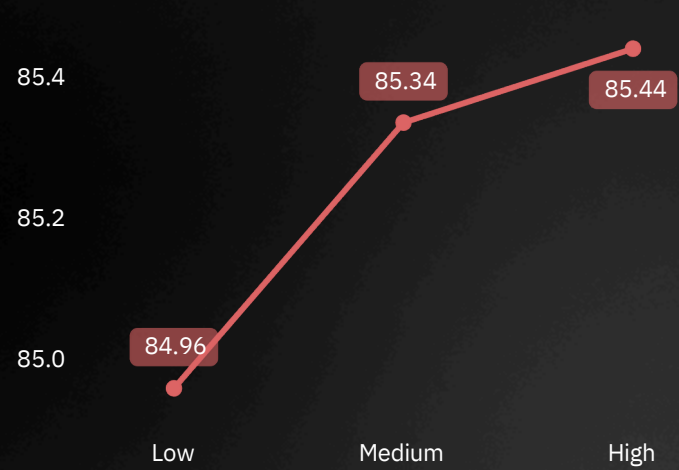
Latency Increase Under Load



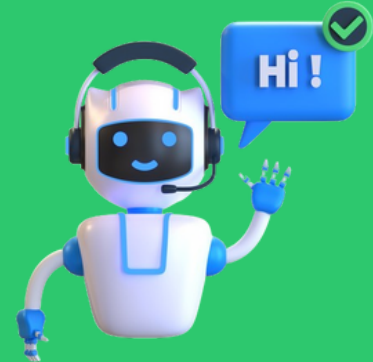
Model Distribution by Efficiency Rating

ef ficiency_r ating	Count of id
Outstanding	11
Poor	635
Fair	242
Good	74
Excellent	38
Total	1000

Response Accuracy Across Load Levels



Optimization Insights



Most Effective Optimization Technique

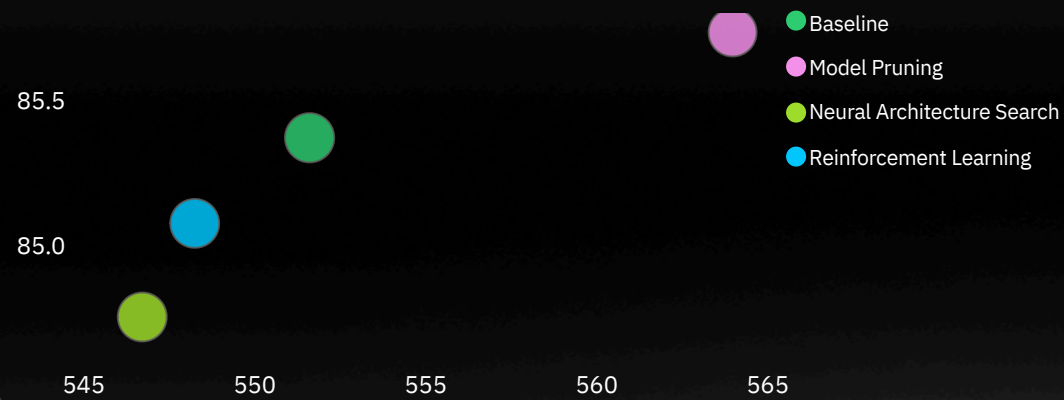


**Neural Architecture Search**  
Best Optimization Technique

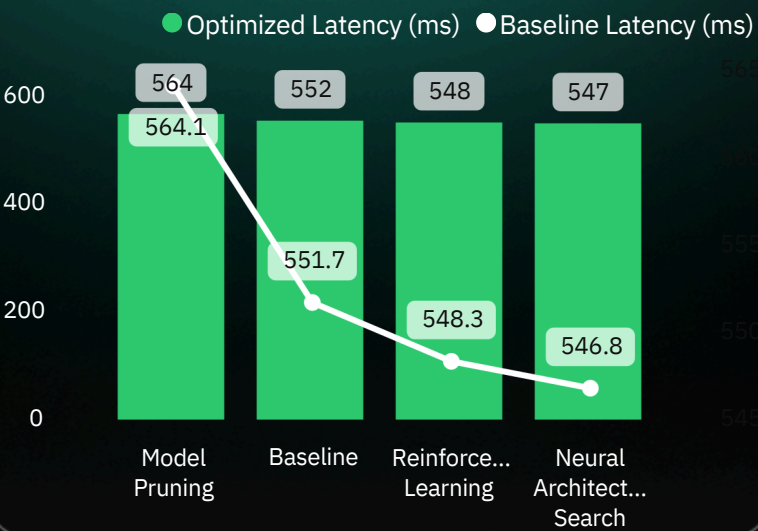
**22.32%**

Best Optimization Efficiency

Optimization Trade-offs: Accuracy vs Latency



Before vs After Optimization (Latency)



Best Optimization Advantage (%)

**2.2**

Optimization Advantage (%)

Models Needing Optimization

**676**

Models Needing Optimization

Performance Gain vs Baseline by Optimization Technique

