

The Best of Bots: Identifying Top Performers with SQL Analysis

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https://github.com/andietometsko/Chatbot_Performance_Analysis

AI Chatbot Analytics for Advanced Development

For: AI Development Team

Addressing: Unclear chatbot performance metrics

Analysis: Analyzed chatbot accuracy, latency and user reviews

Job Alignment: Skills and Responsibilities

We pay smart folks to train AI.



Mobile App Developer - AI Trainer

[DataAnnotation](#) 3.9 ★ Remote Remote

DataAnnotation

★★★★☆ 592 reviews

[Read what people are saying about working here.](#)

Full job description

We are looking for proficient programmers to join our team to train our AI chatbots to code. You will work with the chatbots that we are building in order to measure their progress, as well as write and evaluate code.

To apply to this role, you will need to be proficient in either Python and/or JavaScript. Your role will require proficiency in at least one programming language/framework (JavaScript, TypeScript, Python, C, C#, C++, HTML/CSS, React, Go, Java, Kotlin, SQL, or Swift) in order to solve coding problems (think LeetCode, HackerRank, etc). For each coding problem, you must be able to explain how your solution solves the problem.

As part of the application process, you will be asked to complete an assessment. If you pass, you will gain access to projects. Based on the quality of your work, you will continue to receive projects regularly. We find our most successful candidates work between 5-20 hours per week, up to 40 hours.

This Analysis Applies

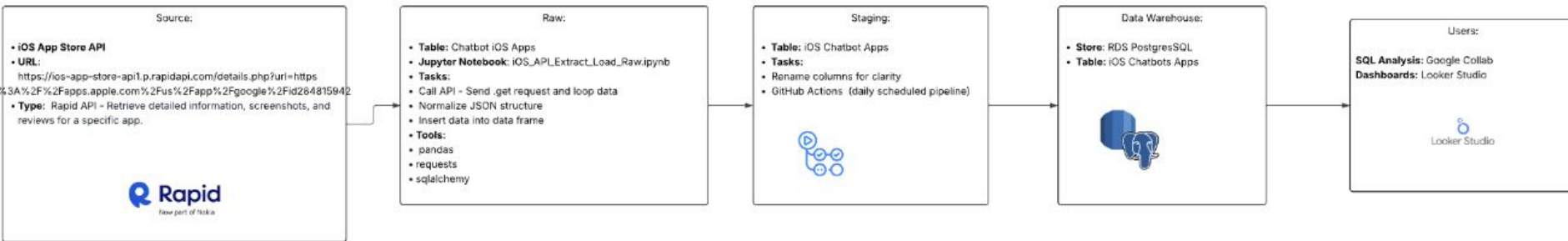
- Train and evaluate AI chatbots.
- Use Python, SQL, and other coding languages.
- Solve coding problems and explain solutions.
- Measure chatbot performance and accuracy.

API Data Source: iOS App Store API

Data Collected:

App Name, App Store URL, Description, Rating Value, Review Count. Category
Relevance:

API data extraction and processing



High-Performing iOS Chatbots: What Users Love

Business Question:

Which iOS chatbots have the highest average rating?

Insight:

High ratings + high review count = trusted chatbots

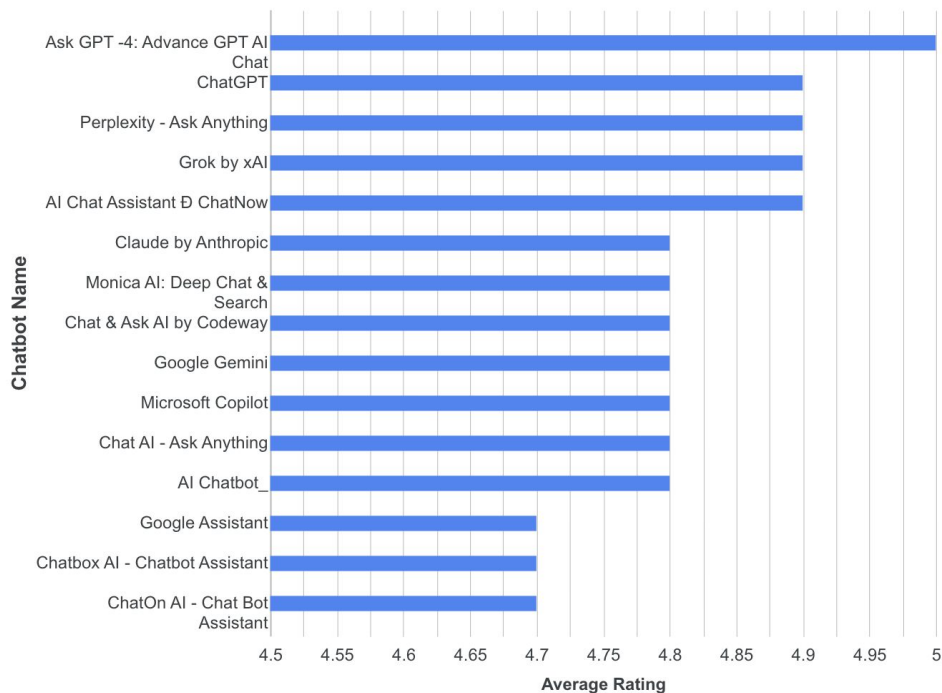
Recommendation:

Choose chatbots with both high ratings and review counts to base training on

Prediction:

Top rated, widely-reviewed chatbots will lead the market

Top Chatbots by Average Rating



Top Chatbots: Balancing Ratings and Popularity

Business Question:

Best iOS chatbots by rating and popularity?

Insight:

Top chatbots (ChatGPT) excel in both rating and review count.

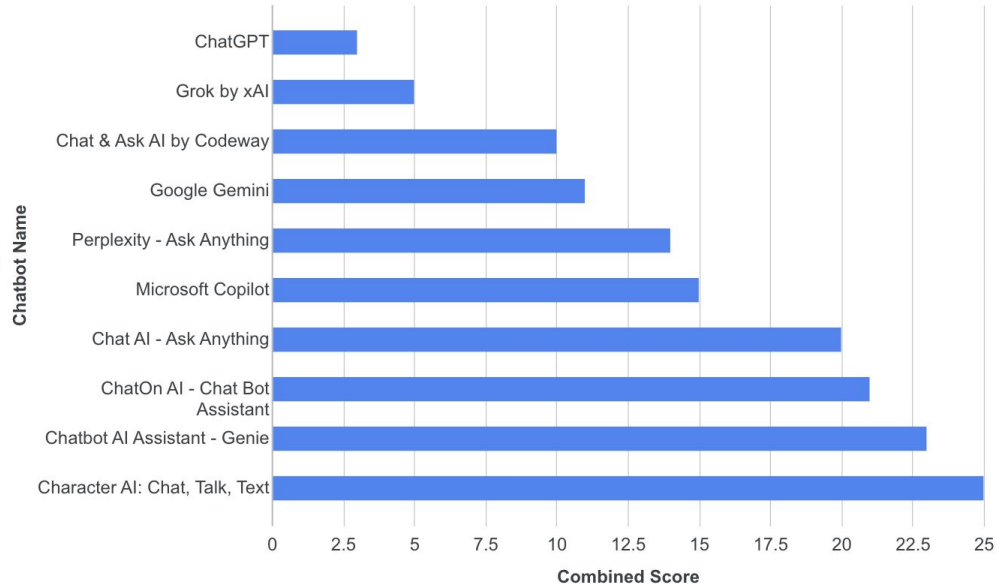
Recommendation:

Inspire training based on chatbots with a low combined scores

Prediction:

High-rated, widely-used chatbots will lead

Best-Performing iOS Chatbots by Combined Performance Score

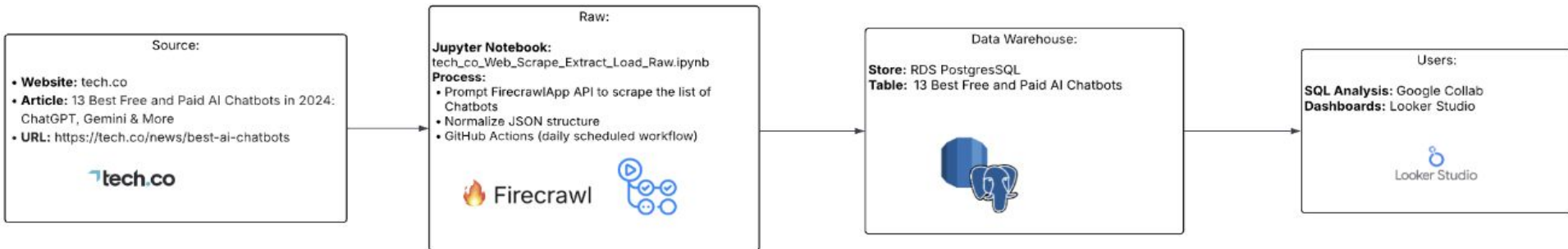


Web Scrape Data Source: Teco.co

Source: <https://tech.co/news/best-ai-chatbots>

Data Collected: Model Name, BestFor, Plan, CreatedBy, Pros, Cons

Relevance: Identifying top chatbot performers



Let's pivot to a public dataset!

Data:

Model, Category, Domain, Query Type, Latency, Response Accuracy, Performance Time, Memory Usage, Concurrent Queries, Optimization Technique, Notes

Source: <https://www.kaggle.com/datasets/mussaddiqahmed/local-ai-chatbot-performance?source=download>

Top Chatbots: Accuracy vs. Performance

Business Question:

Which chatbots have the highest average accuracy?

Insight:

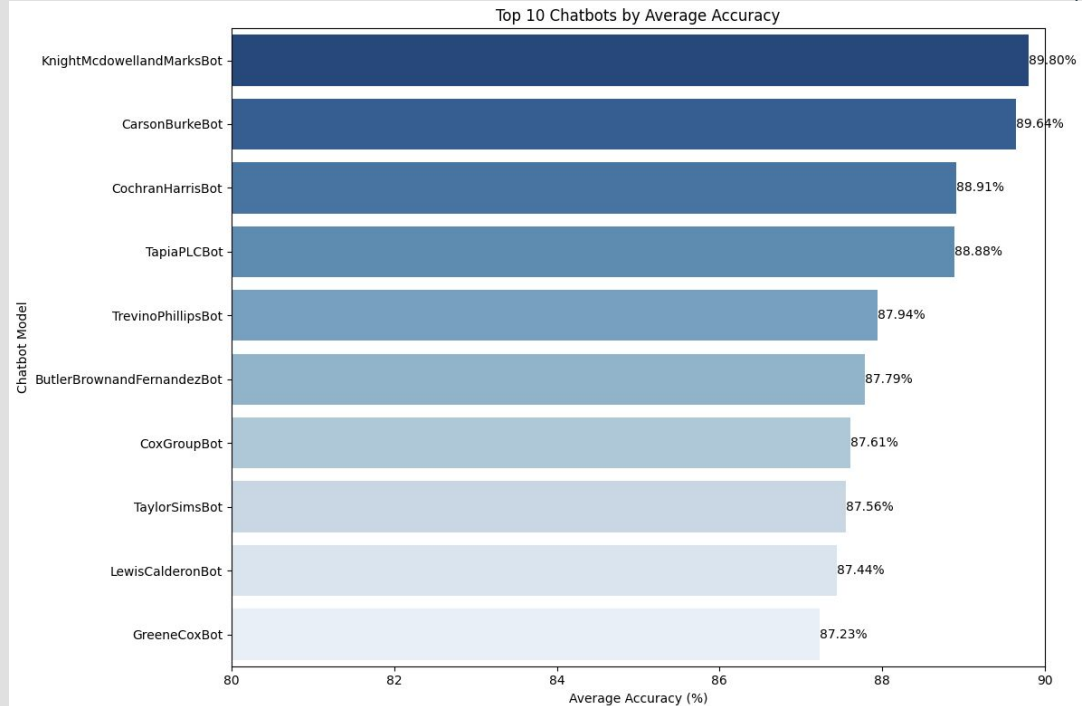
High accuracy often means higher latency and memory usage.

Recommendation:

Choose chatbots based on your priority: accuracy vs. speed.

Prediction:

High-accuracy bots may face performance issues without optimization.



Chatbot Performance: Accuracy vs. Latency

Business Question:

Which chatbots balance accuracy and speed?

Insight:

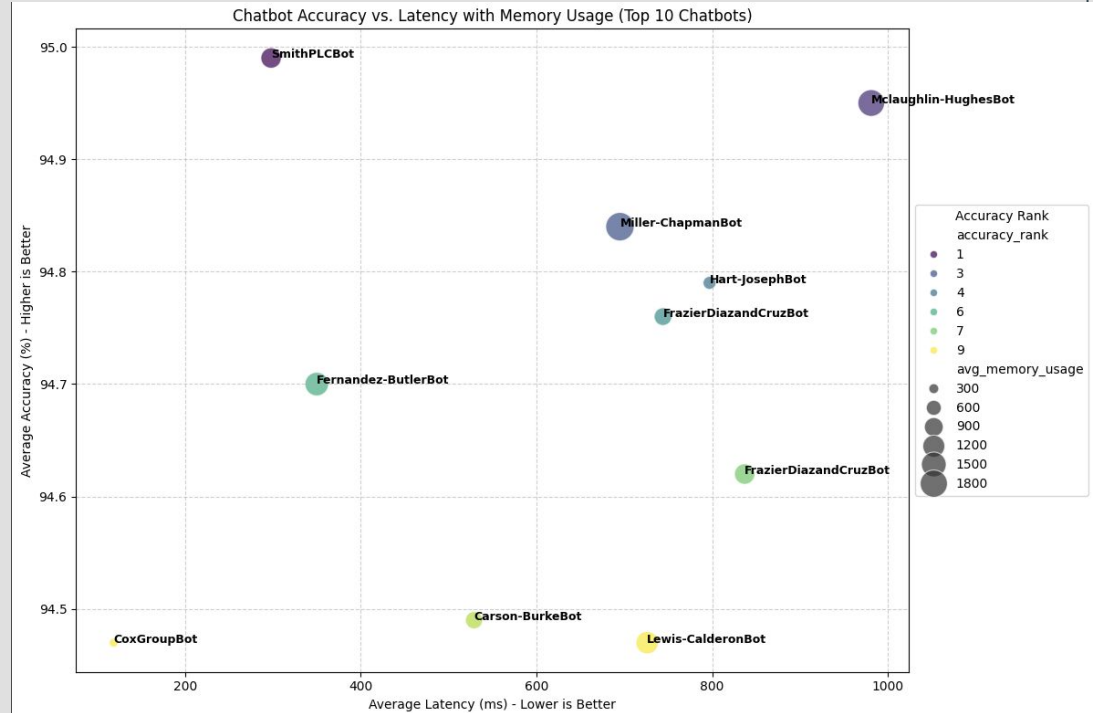
Higher accuracy means slower response time.

Recommendation:

Choose chatbots by priority: accuracy or speed.

Prediction:

High-accuracy bots may face speed issues.



Making Data Work: Why I'm the Fit

Ready to Contribute: SQL expertise, data pipelines, visual analytics, and strategic insights.

Proven Results: 4 optimized SQL queries, 4 clear visualizations, 2 distinct chatbot datasets.

Next Steps: Implement findings to enhance chatbot selection and performance.

Impact: Elevate user satisfaction, streamline chatbot choices, and drive data-driven decisions.

Value: I transform complex data into clear, actionable insights.

