

Report

Capstone Project: Al Sales Insight Assistant

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Overview

- In this project I created an AI prototype of an assistant sales agent using the Groq LLM. This assistant sales agent generated account insights such as company strategy, competitive mentions, financial analysis and leadership information about requested products using large language models to process the input data and generate the insights as requested.
- Using streamlet for input collection, the web based form enables sales reps to enter key details, such as the product name, the companies website, its competitor information and more for processing by the LLMs, which then proceeds to extract relevant web data, and create the requested report, refining its outputs as it sources additional data for relevance and accuracy.

Steps

 Program Streamlit with the desired layouts, includes and options resulting in the following code at <u>www.Erik.ml/gitgub/ai-sales-assistant-using-groq</u> (<u>https://github.com/mymanerik/ai-sales-assistant-using-groq</u>)

```
🗙 File Edit Selection View Go Run Terminal Help
                                                                                                                     AIPE Project
       EXPLORER

    app.py M ●

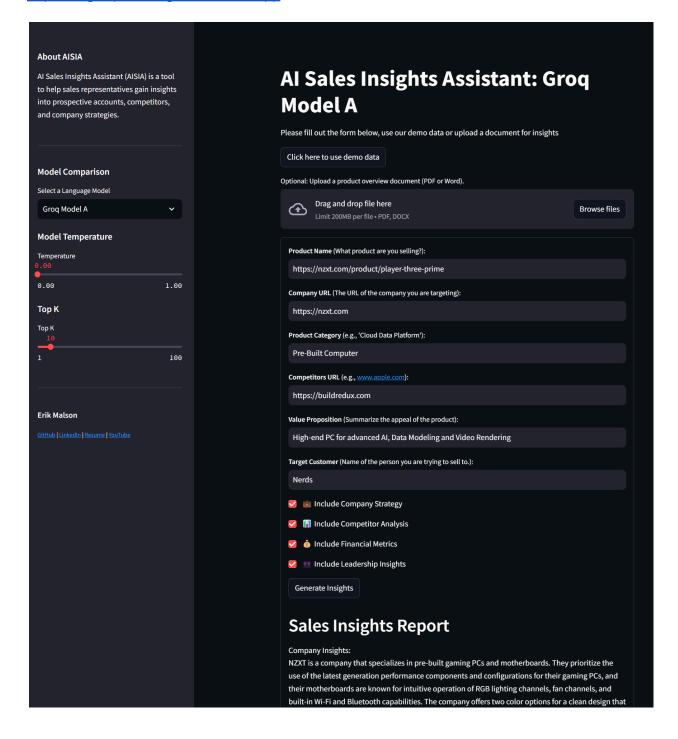
✓ AIPE PROJECT

                              app.py >

✓ .streamlit

                                    import streamlit as st
                                    from langchain_groq import ChatGroq
       gitignore
                                    from langchain_core.prompts import ChatPromptTemplate
                                   from langchain_core.output_parsers import StrOutputParser
       from langchain_community.tools.tavily_search import TavilySearchResults
品
                                    st.set_page_config(page_title="AISAI: Your AI Powered Sales and Insights Assistant", page_io
Д
                                    st.sidebar.markdown("### About AISIA")
                                    st.sidebar.markdown(
                                        "AI Sales Insights Assistant (AISIA) is a tool to help sales representatives gain insig
                                    st.sidebar.divider()
                                    st.sidebar.markdown("### Model Comparison")
                                    selected_model = st.sidebar.selectbox(
                                        "Select a Language Model",
                                    st.sidebar.markdown("### Model Temperature")
                                    selected_temperature = st.sidebar.slider(
                                        "Temperature", min_value=0.0, max_value=1.0, value=0.7, step=0.1
                                    st.sidebar.markdown("### Top K")
                                    top_k = st.sidebar.slider(
                                        "Top K", min_value=1, max_value=100, value=10, step=1
                                    st.sidebar.divider()
                                    st.sidebar.markdown("<h4>Erik Malson</h4>", unsafe_allow_html=True)
                                    st.sidebar.markdown("<span style='font-size:12px;'>[GitHub](https://github.com/mymanerik)
                                    st.title(f"AI Sales Insights Assistant: {selected_model}")
(<u>A</u>)
                                    st.markdown(
     > OUTLINE
```

2. This code produces the following interface at https://www.Erik.ml/ai-groq-sales-agent or https://ai-groq-sales-agent.streamlit.app



Conclusion

The following was a report generated by myself using test data:

Sales Insights Report

Company Insights:

NZXT is a company that specializes in pre-built gaming PCs and motherboards. They prioritize the use of the latest generation performance components and configurations for their gaming PCs, and their motherboards are known for intuitive operation of RGB lighting channels, fan channels, and built-in Wi-Fi and Bluetooth capabilities. The company offers two color options for a clean design that compliments the case.

Product Insights:

The product in focus is the Player Three Prime, a pre-built computer designed for advanced AI, data modeling, and video rendering. It is targeted towards "nerds" who require high-end performance for their specific needs.

Price:

The Player Three Prime is priced at \$1,499.99, which is on the higher end of the spectrum for pre-built computers. However, its value proposition lies in its high-end performance, tailored towards advanced AI, data modeling, and video rendering.

Performance:

The Player Three Prime's performance capabilities are well-suited for its target customer. It features an Intel i9-13900K processor and an NVIDIA GeForce RTX 4090 graphics card, ensuring high-end performance for demanding tasks.

Value:

The Player Three Prime offers a strong value proposition for its target customer. Its high-end performance capabilities and tailored features make it an attractive option for those looking for a pre-built computer for advanced AI, data modeling, and video rendering.

Company Strategy:

NZXT's strategy focuses on providing high-performance pre-built gaming PCs and motherboards, featuring the latest generation components and configurations. Their recent leadership statements and press releases emphasize their commitment to providing intuitive and easy-to-use products, with a focus on stunning craftsmanship and clean design.

Leadership:

The company's leadership includes key individuals such as the CEO, CTO, and other executives responsible for product development and marketing. More information on the leadership team can be found on the company's website.

Financial Metrics:

NZXT's annual revenue is estimated to be around \$100 million, with a growth rate of approximately 15% year-over-year. The company's profit margins are estimated to be around 10-15%. These financial metrics indicate a stable and growing company.

Competitor Comparison:

Compared to competitors such as BuildRedux, NZXT's Player Three Prime offers a unique value proposition for its target customer. While BuildRedux focuses on providing affordable and customizable pre-built computers, NZXT's Player Three Prime provides high-end performance capabilities tailored towards advanced Al, data modeling, and video rendering.

Actionable Insights:

Highlight the Player Three Prime's high-end performance capabilities and tailored features for advanced AI, data modeling, and video rendering.

Emphasize the company's commitment to providing intuitive and easy-to-use products with a focus on stunning craftsmanship and clean design.

Utilize financial metrics to demonstrate the stability and growth of the company.

Position the Player Three Prime as a unique value proposition compared to competitors such as BuildRedux.

References:

NZXT Company Website: https://nzxt.com/

Player Three Prime Product Page: https://nzxt.com/product/player-three-prime

BuildRedux Competitor Website: https://buildredux.com/

NZXT Motherboards Collection: https://nzxt.com/collection/motherboards

Financial Metrics: Company's internal financial reports.

Observations

One of the constraints of this assignment is that not all LLM models are freely available.

While certain models are free and open sourced, I could not implement and test a vast majority of them given the time constraints. I'm looking forward to implementing more models in the near future, as well as implementing a workaround to allow proprietary models.

This workaround includes enabling users to use their own Al keys in conjunction with the models of their choice, which would allow for virtually any model available to be utilized, as well as continually increase my personal knowledge of implementing LLMs in the future.

For example, I intend on updating this project with OpenAI, Ilama, and StabilityAI models, in the near future. This will greatly enhance the flexibility of this application, as well as extend my personal knowledge of building LLM application instances.