

DOR summarizing tool

AI tool that can read and summarize recurring Daily operation reports (DOR) used by natural resource extraction companies.

Problem

In manual labor-intensive jobs that involve the collection of system reports from hardware sensors, workers are burdened with the tedious task of writing and submitting these reports to the office. This manual process consumes valuable time and can lead to errors, delays, and reduced efficiency. There is a pressing need to automate and streamline this reporting process, which would benefit all stakeholders involved, including the workers, supervisors, and management.

Solution

The development of a dedicated tool to address this problem is already underway. This tool leverages the power of Falcon LLM and langchain to provide an efficient and automated solution. Here's how it works:

Data Collection: The tool collects system reports generated by hardware sensors. These sensors are often installed on various equipment and machines used in manual labor jobs.

Data Processing: Falcon LLM is used for its advanced learning models to analyze the collected data. It can interpret and understand the information from the reports, making it possible to extract valuable insights and key data points.

Report Summarization: Langchain is employed for its summarizing ability. It condenses the data into concise and actionable summaries, eliminating the need for manual report writing.

The product

Time-Saving: By automating the report generation process, the tool frees up time for manual labor workers, allowing them to focus on their core tasks. Accuracy: Automation reduces the chances of human errors in report writing and data interpretation. Efficiency: Supervisors and management can access real-time data, enabling faster decision-making and improved efficiency. Cost Reduction: Reduced manual labor for report writing can lead to cost savings for the organization. Data Insights: The tool's data processing capabilities provide valuable insights that can inform decision-making and process improvements.

User Interaction

<https://studious-acorn-44gg49x4477hpg9.github.dev/?workspace=%2Fworkspace%2Ffalcon-langchain%2Ffalcon-langchain.code-workspace>

Market Scope

According to industry professionals there is a very high demand for automation in the natural resources extraction industry that is up to 50% of the total market.

Future Prospects

Automation: The tool is designed to automate the entire reporting process. Once the data is collected and processed, it generates detailed summaries and reports, which are then ready for submission. **Integration:** The long-term vision for this tool includes creating a direct data pipeline between the tool and a communications bus. This bus is connected to a programmable logic controller (PLC) that, in turn, communicates with the hardware sensors. This integration ensures real-time data collection and reporting.