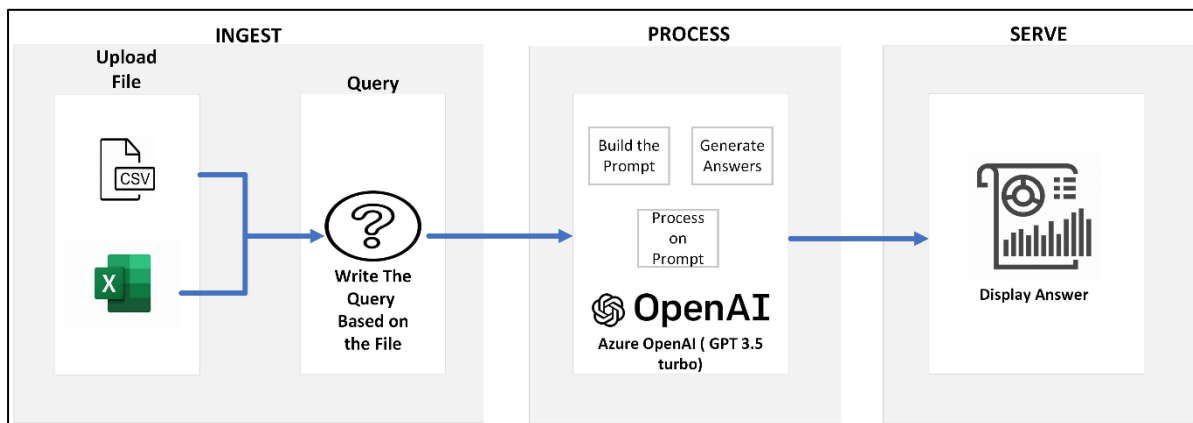


User Interactive ChatBOT using Azure OpenAI

Intech Systems Private Limited

User Interactive ChatBOT is a tool that uses AI-powered natural language processing to analyze and provide insights on CSV or Excel data. Users can upload CSV or Excel files, view the data, and have conversations with our interactive BOT to obtain valuable information and answers related to the uploaded data.



Azure OpenAI provides several features and functionalities:

- A simple and easy-to-use API offers various endpoints that can be used for different tasks, such as text generation, summarization, sentiment analysis, language translation, and many more.
- Already fine-tuned on vast amounts of data enables to customize models making it easier for developers to leverage the power of AI.
- The Azure OpenAI service is available in various regions, allowing customers to choose the most suitable data centre location for their needs.
- Using Azure OpenAI Service can be more cost-effective than building and maintaining your own AI infrastructure. With Azure, you only pay for what you use, which makes it easy to scale your costs according to your needs.

Professional Services Include:

- **Consultation:** Our experts provide consultation services to ensure that the integration of Azure OpenAI aligns with your specific business goals and requirements.
- **Customization:** We tailor the solution to your unique needs, ensuring that it meets the specific challenges and opportunities of your industry.
- **Training:** We offer training sessions to help your team effectively utilize our Azure OpenAI based offerings.
- **Support:** Our dedicated support team is available to assist you throughout the implementation and usage of the solution.
- **Scalability:** We help you scale the solution as your business grows, ensuring it continues to deliver value over time.

At Intech Systems, we've successfully implemented Azure OpenAI solutions, which can be leveraged by our customers. Our team of certified and seasoned professionals is committed to helping clients transform raw data into actionable business insights.

Requirement Analysis:

- Initial consultation to assess your current services and explore how OpenAI can be integrated.
- Analysing collected data and requirements to determine feasibility.
- Documenting gathered requirements and finalizing the implementation scope.

Design, Modelling & Development:

1. **Data Selection:** Begin by selecting a dataset. You can either choose from pre-loaded CSV/EXCEL files or upload your own dataset.
2. **Query Input:** Craft your query without worrying about spelling or grammar. This query will be used to generate prompts for further processing.
3. **Azure OpenAI Integration:** Utilize Azure OpenAI's GPT-3.5 Turbo for natural language processing. Generate answers and insights based on the provided query by processing the prompt with Azure OpenAI.
4. **Visualization Generation:** Based on the answers and insights generated, create visualizations or charts to present the data in an easily understandable format. These visualizations will help users gain meaningful insights from the data.

Screenshots:

The csv file:

| ITEMID | SHIFT | PROD_TYPE | HOURS | QTY_Pass | QTY_Fail | DEPARTMENTS | WEIGHT | ITEMGROUPID | NAME | DATEWIP | COMPANY NAME | EXPR1 | EXPR2 | EXPR22 | ITEM |
|--------|-----------|-----------|-------|-------------|----------|-------------|--------------|-------------|--------|------------------|---------------|----------|-------|--------|-------|
| 123 | GEN SHIFT | PROD | 0 | 47.8 | 0 | VENDOR | 12.54285714 | 80002 | ABC123 | 18-12-2020 00:00 | COMPANY TEMP1 | 478.12 | 0 | 123.2 | item1 |
| 124 | GEN SHIFT | PROD | 0 | 56.2 | 0 | VENDOR | 11.68571429 | 80001 | DEF456 | 16-12-2020 00:00 | COMPANY TEMP1 | 547.48 | 0 | 940 | item2 |
| 125 | GEN SHIFT | PROD | 0 | 64.6 | 0 | VENDOR | 10.82857143 | 80004 | GHI789 | 16-12-2020 00:00 | COMPANY TEMP2 | 616.84 | 0 | 611 | item3 |
| 126 | GEN SHIFT | PROD | 0 | 73 | 0 | VENDOR | 9.971428571 | 80001 | DEF456 | 17-12-2020 00:00 | COMPANY TEMP1 | 686.2 | 0 | 940 | item3 |
| 127 | GEN SHIFT | PROD | 0 | 81.4 | 0 | VENDOR | 9.114285714 | 80002 | ABC123 | 07-12-2020 00:00 | COMPANY TEMP1 | 755.56 | 0 | 470 | item3 |
| 128 | GEN SHIFT | PROD | 0 | 89.8 | 0 | VENDOR | 8.257142857 | 80002 | ABC123 | 07-12-2020 00:00 | COMPANY TEMP2 | 824.92 | 0 | 470 | item4 |
| 129 | GEN SHIFT | PROD | 0 | 98.2 | 0 | VENDOR | 7.4 | 80002 | ABC123 | 08-12-2020 00:00 | COMPANY TEMP1 | 894.28 | 0 | 752 | item3 |
| 130 | GEN SHIFT | PROD | 0 | 106.6 | 0 | VENDOR | 6.542857143 | 80002 | ABC123 | 09-12-2020 00:00 | COMPANY TEMP1 | 1391.792 | 0 | 940 | item4 |
| 131 | GEN SHIFT | PROD | 0 | 115 | 0 | VENDOR | 5.685714286 | 80002 | ABC123 | 10-12-2020 00:00 | COMPANY TEMP2 | 1242.148 | 0 | 940 | item3 |
| 132 | GEN SHIFT | PROD | 0 | 123.4 | 0 | VENDOR | 4.828571429 | 80002 | ABC123 | 01-12-2020 00:00 | COMPANY TEMP1 | 1102.36 | 0 | 141 | item4 |
| 133 | GEN SHIFT | PROD | 0 | 131.8 | 0 | VENDOR | 3.971428571 | 80002 | ABC123 | 19-12-2020 00:00 | COMPANY TEMP1 | 1171.72 | 0 | 470 | item3 |
| 134 | GEN SHIFT | PROD | 0 | 104.9071429 | 0 | VENDOR | 3.114285714 | 80002 | ABC123 | 26-12-2020 00:00 | COMPANY TEMP2 | 282 | 0 | 282 | item4 |
| 135 | GEN SHIFT | PROD | 0 | 97.57142857 | 0 | VENDOR | 2.257142857 | 80002 | ABC123 | 18-12-2020 00:00 | COMPANY TEMP1 | 940 | 0 | 940 | item3 |
| 136 | GEN SHIFT | PROD | 0 | 90.23571429 | 0 | VENDOR | 1.4 | 80002 | ABC123 | 01-12-2020 00:00 | COMPANY TEMP1 | 470 | 0 | 470 | item4 |
| 137 | GEN SHIFT | PROD | 0 | 82.9 | 0 | VENDOR | 0.542857143 | 80002 | ABC123 | 09-12-2020 00:00 | COMPANY TEMP2 | 498.2 | 0 | 498.2 | item3 |
| 138 | GEN SHIFT | PROD | 0 | 75.56428571 | 0 | VENDOR | -0.314285714 | 80002 | ABC123 | 29-12-2020 00:00 | COMPANY TEMP1 | 592.2 | 0 | 1880 | item4 |
| 139 | GEN SHIFT | PROD | 0 | 68.22857143 | 0 | VENDOR | -1.171428571 | 80002 | ABC123 | 30-12-2020 00:00 | COMPANY TEMP1 | 610.06 | 0 | 940 | item4 |
| 140 | GEN SHIFT | PROD | 0 | 60.89285714 | 0 | VENDOR | -2.028571429 | 80002 | ABC123 | 31-12-2020 00:00 | COMPANY TEMP2 | 627.92 | 0 | 1410 | item4 |
| 141 | GEN SHIFT | PROD | 0 | 53.55714286 | 0 | VENDOR | -2.885714286 | 80002 | ABC123 | 11-12-2020 00:00 | COMPANY TEMP1 | 645.78 | 0 | 1410 | item3 |
| 142 | GEN SHIFT | PROD | 0 | 46.22142857 | 0 | VENDOR | -3.742857143 | 80002 | ABC123 | 12-12-2020 00:00 | COMPANY TEMP1 | 1598 | 0 | 1598 | item4 |

User can ask questions based on uploaded file.

| ITEMID | SHIFT | PROD_TYPE | HOURS | QTY_Pass | QTY_Fail | DEPARTMENTS | WEIGHT | ITEMGROUPID | NAME | DATEWIP | COMPANY NAME | EXPR1 |
|--------|-----------|-----------|-------|----------|----------|-------------|------------------|-------------|--------|-------------------------------|---------------|--------|
| 123 | GEN SHIFT | PROD | 0 | 47.8 | 0 | VENDOR | 12.5428571428572 | 80002 | ABC123 | Fri, 18 Dec 2020 00:00:00 GMT | COMPANY TEMP1 | 478.12 |
| 124 | GEN SHIFT | PROD | 0 | 56.2 | 0 | VENDOR | 11.6857142857143 | 80001 | DEF456 | Wed, 16 Dec 2020 00:00:00 GMT | COMPANY TEMP1 | 547.48 |
| 125 | GEN SHIFT | PROD | 0 | 64.6 | 0 | VENDOR | 10.8285714285714 | 80004 | GHI789 | Wed, 16 Dec 2020 00:00:00 GMT | COMPANY TEMP2 | 616.84 |

Chat Below.

Enter your query

Submit

Output:

Chat Below.

Enter your query

Submit

Your Query: Display pie chart for shift wise average production hours

Result:

Shift Wise Average Production Hours

| Shift | Percentage |
|-----------|------------|
| 1ST SHIFT | 35.3% |
| 2ND SHIFT | 32.2% |
| 3RD SHIFT | 32.3% |
| GEN SHIFT | 0.0% |