

Talentica GenAI Assignment Details

An e-commerce analytics organization aims to extract and utilize data from user purchase bills (provided in image format) for various analytical purposes.

Your task is to develop an AI-powered assistant with the following capabilities:

1. **Chit-Chat:** Engage in basic conversational interactions with users.
2. **Bill Parsing:** Analyze and extract structured information from a bill image, adhering to a predefined schema.
3. **Data Export:** Save the extracted bill information as a JSON file upon request.
4. **Information Querying:** Answer user queries based on the information extracted from the bill.
5. **Accuracy:** Leverage Generative AI techniques to achieve high accuracy (targeting near 100%) in information extraction.

Use appropriate GenAI models and tools to fulfill these functionalities effectively.

Below are some of the sample images for bill, with more can be obtained from the Internet for validating your approach. Coding needs to be python language. One can use any of GenAI models: managed or open source.

| Tax Invoice | | Invoice Number # FABZDC2100864029 | | | | | |
|---|---|--|---|------------|-----------------|------------|----------|
| Sold By: Tech-Connect Retail Private Limited , Ship-from Address: Sy. No.130,256,259,268 and 283, Malur Industrial Area,, Hosakote Village Lakkur Hobli Malur Taluk, Kolar, Karnataka, 563130, Bangalore, Karnataka, India - 563130, IN-KA GSTIN - 29AAICA4872D1ZK | | | | | | | |
| Order ID: OD119571078366432000 Order Date: 31-08-2020 Invoice Date: 31-08-2020 PAN: AAICA4872D CIN: U52100DL2010PTC202600 | Bill To Amrishbhai Patel 03 - Venice Bungalows,Near SP Ring Road,Behind Rainforest Bungalows, Nana Chiloda. Ahmedabad 382330 Gujarat Phone: xxxxxxxxxx | Ship To Amrishbhai Patel 03 - Venice Bungalows,Near SP Ring Road,Behind Rainforest Bungalows, Nana Chiloda. Ahmedabad 382330 Gujarat Phone: xxxxxxxxxx | <i>*Keep this invoice and manufacturer box for warranty purposes.</i> | | | | |
| Total items: 1 | | | | | | | |
| Product | Title | Qty | Gross Amount ₹ | Discount ₹ | Taxable Value ₹ | IGST ₹ | Total ₹ |
| Laptops FSN: COMFT42FHH9AGAN6 HSN/SAC: 84713010 | Honor MagicBook 15 Ryzen 5 Quad Core - 8 GB/256 GB SSD/Windows 10 Home Boh-WAQ9HNR Thin and Light Laptop Warranty: 1 Year Limited Domestic Warranty 1. [IMEI/Serial No: KHMPM2071700708] IGST: 18.000 % | 1 | 42990.00 | 0.00 | 36432.20 | 6557.80 | 42990.00 |
| Total | | 1 | 42990.00 | 0.00 | 36432.20 | 6557.80 | 42990.00 |
| Grand Total | | | | | | ₹ 42990.00 | |
| Tech-Connect Retail Private Limited | | | | | | | |
| Authorized Signatory | | | | | | | |



Tax Invoice/Bill of Supply/Cash Memo
(Original for Recipient)

Sold By :
Varasiddhi Silk Exports
* 75, 3rd Cross, Lalbagh Road
BENGALURU, KARNATAKA, 560027
IN

PAN No: AACFV3325K
GST Registration No: 29AACFV3325K1ZY


Billing Address :
Madhu B
Eurofins IT Solutions India Pvt Ltd., 1st Floor,
Maruti Platinum, Lakshminarayana Pura, AECS
Layout
BENGALURU, KARNATAKA, 560037
IN
State/UT Code: 29

Shipping Address :
Madhu B
Eurofins IT Solutions India Pvt Ltd., 1st Floor,
Maruti Platinum, Lakshminarayana Pura, AECS
Layout
BENGALURU, KARNATAKA, 560037
IN
State/UT Code: 29

Place of supply: KARNATAKA
Place of delivery: KARNATAKA

Order Number: 403-3225714-7676307
Order Date: 28.10.2019

Invoice Number : IN-761
Invoice Details : KA-310565025-1920
Invoice Date : 28.10.2019

| Sl. No | Description | Unit Price | Qty | Net Amount | Tax Rate | Tax Type | Tax Amount | Total Amount |
|---|--|------------|-----|------------|----------|----------|---------------|------------------|
| 1 | Varasiddhi Silks Men's Formal Shirt (SH-05-42, Navy Blue, 42) B07KGF3KW8 (SH-05--42) | ₹538.10 | 1 | ₹538.10 | 2.5% | CGST | ₹13.45 | ₹565.00 |
| | Shipping Charges | ₹30.96 | | ₹30.96 | 2.5% | SGST | ₹13.45 | ₹32.50 |
| | | | | | 2.5% | CGST | ₹0.77 | ₹32.50 |
| | | | | | 2.5% | SGST | ₹0.77 | |
| 2 | Varasiddhi Silks Men's Formal Shirt (SH-05-40, Navy Blue, 40) B07KGCS2X7 (SH-05--40) | ₹538.10 | 1 | ₹538.10 | 2.5% | CGST | ₹13.45 | ₹565.00 |
| | Shipping Charges | ₹30.96 | | ₹30.96 | 2.5% | SGST | ₹13.45 | ₹32.50 |
| | | | | | 2.5% | CGST | ₹0.77 | ₹32.50 |
| | | | | | 2.5% | SGST | ₹0.77 | |
| TOTAL: | | | | | | | ₹56.88 | ₹1,195.00 |
| Amount in Words: One Thousand One Hundred And Ninety-five only | | | | | | | | |
| For Varasiddhi Silk Exports:  Authorized Signatory | | | | | | | | |

Whether tax is payable under reverse charge - No



Thank you for your order.

Take Out

Your Order Will Be Ready
Sunday, July 16
at 7:30 PM

China Bistro & Sushi - INTEGRATED
5650 Stirling Road Suites 8 & 9 Hollywood, FL
33021 954-505-4729

Ben Blaine

Order #27597329

MONGOLIAN BEEF
WHITE RICE
NO SPICY
PEKING DUMPLINGS
FRIED
SAUCE

| | |
|-------------------------|--------------|
| Subtotal: | 37.90 |
| Tax: | 2.65 |
| Total: | 40.55 |
| Paid (Mastercard 6926): | -40.55 |

Your card will be charged by ToGoOrder.com
