

KALP MOTA

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Brief Introduction

A highly skilled software engineer with 2+ years of experience specializing in Python, SQL, AWS, and platform integration. Expertise in designing and developing solutions, working with APIs, and leveraging large language models (LLM) for innovative applications. Proven ability to streamline processes by automating workflows and integrating third-party platforms using AWS, ServiceNow and Boto3. Seeking to apply technical expertise in a dynamic role to drive innovation and efficiency.

Education	College	Graduation Year	Percentage
B.E. in Electronics and Telecommunication	K.C. College of Engineering Management Studies and Research	June 2022	8.09 CGPA
Diploma in Computer Technology	Shah and Anchor Kutchhi Polytechnic	June 2019	76.59%

Skills

- **Languages/Technologies:** Python, SQL, AWS (Lambda, EC2, S3), Boto3, RESTful APIs, Docker, Flask, FastAPI, Django
- **Tools/Platforms:** AWS CloudFormation, Git, Jenkins, PostgreSQL, MySQL, Informatica
- **Machine Learning:** LLM (Large Language Models), TensorFlow, Keras, GPT

Professional Experience

Product Engineer

LTIMindtree, Internal Project - Aspect | September 2022 – April 2023

- Contributed to the internal Aspect project, developing innovative AI-driven solutions for document processing, including text processors, named entity recognizers, image classification, and table extraction.
- Worked on building models for City National Bank and Simon-Kucher & Partners, customizing NLP and machine learning solutions to meet client requirements.
- Trained, deployed, and demonstrated models tailored to client needs, utilizing Python and AWS to automate workflows and integrate solutions.
- Worked on features like document splitting, knowledge nugget extraction, sentiment analysis, and object identification for real-time analysis.

Python Developer

Travelers (Client) - LTIMindtree | May 2023 – September 2023

- Developed custom scripts to automate the conversion of insurance form data from Excel to JSON, streamlining form processing for various insurance types.
- Utilized Python to automate the population of PDFs with client data, saving manual input time and increasing accuracy.
- Collaborated with the team to integrate API solutions for automated data dumping into the client's database, ensuring seamless data flow and synchronization.
- Enhanced workflow efficiency by automating data extraction, reducing processing time and improving the accuracy of insurance document handling.

Python Backend Developer

LTIMindtree (Aspect Project) | September 2023 – September 2024

- Designed and developed backend solutions for the Aspect platform using Python, FastAPI, and Flask to create scalable, high-performance APIs.
 - Integrated LLM (Large Language Models), enhancing the platform's capabilities with features like OCR, regex-based extraction, and document post-processing using Camelot for tabular data.
 - Implemented third-party app integration using async operations, improving platform functionality and responsiveness.
 - Implemented custom functionalities, including duplicate annotation detection and LLM model fine-tuning for text processing.
 - Contributed to the optimization of machine learning models, particularly for GPT and other language model applications, improving accuracy.
 - Developed custom scripts to interact with REST APIs, retrieving only the client-required data while filtering out unnecessary information, improving data handling efficiency.
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Python Developer

Zendesk | October 2024 – Present

- Working as a Python Developer responsible for backend systems and API development to improve customer service solutions.
- Developing scalable solutions using Python, Flask, and FastAPI while integrating third-party applications to extend product functionalities.
- Leveraging AWS and SQL databases to enhance the architecture and implement efficient cloud solutions for data processing and storage.
- Collaborating with cross-functional teams to continuously improve system performance, maintain code quality, and solve complex backend challenges.

Training Experience

LTI (Training Period) | July 2022 - September 2022 (3 months)

- Underwent 3 months of extensive training on Informatica to gain hands-on experience in data integration, transformation, and ETL processes.
- Developed strong proficiency in data management and migration strategies, optimizing data flow across various systems.
- Received training and completed assignments in multiple programming languages, including SQL, Python, and Java.

Projects:

- **IBackPack (An AR Tour Guide App):** My bachelor's Final Year project that was developed for visitors to find exciting online information during their travels. Unity was integrated for the augmented reality to interact with the user's views. The app will display information such as location, street map, ratings, and key nearby locations related to. Users will have consistent information about their target location.

Link to Project: [Final Year Project](#)

- **Telegram Bot with Weather Forecast (Python):** Developed a Telegram bot using the python-telegram-bot library, integrated with OpenWeatherMap API for weather forecasting. The bot allows users to interact through various commands, including /start, message echoing, inline keyboard options, and sharing their location. Upon receiving the user's location, the bot fetches weather data using the OWM API and returns detailed forecasts, such as temperature, status, and conditions for the next few hours. This project showcases skills in bot development, API integration, and user interaction via a chatbot interface.

Link to Project: [Project Link](#)

- **Data Science Jupyter Notebook (Python, Pandas):** A data analysis project where I performed various data science tasks using 911.csv and USA Housing.csv datasets. The project involved data cleaning, exploratory data analysis (EDA), and visualization using Pandas and Matplotlib to uncover insights from the data. Key tasks included handling missing values, data transformations, and statistical analysis.

Link to Project: [Project Link](#)

- **WhatsApp Bot (Flask, Twilio, MongoDB):** Developed a WhatsApp-based chatbot for a bakery using Flask, Twilio API, and MongoDB to handle customer interactions. The bot allows users to place orders, check the bakery's working hours, and get contact details. Customers can choose from a list of cakes, provide their address, and receive a confirmation of their order. The system also stores user interactions in a MongoDB database for future reference and order tracking. This project demonstrates skills in building chatbots, integrating with WhatsApp using Twilio, and managing data with MongoDB.

Link to Project: [Project Link](#)

- **GSM-based Wireless E-Noticeboard:** My diploma final year project that aimed to create a wireless noticeboard system for displaying messages remotely. The project utilized Arduino UNO for controlling the process, a GSM module to receive SMS messages from a mobile phone, and an LCD to display the content. The system automatically parsed SMS messages and extracted the main notice, which was then displayed on the board, providing an efficient way to update notices from any location.

Certificates

- Multidisciplinary Conference on Engineering Science & Technology (MCEST 2022) – Presented Ibackpack: An AR Tour Guide App.
- Python certifications
- Generative AI certifications
- Internship and Training certificates

For a complete list of certifications, please visit: [Link](#)