

Kalp Mota

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Summary

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 (LLMs) for innovative applications. Proven ability to streamline processes by automating workflows and integrating third-party platforms using AWS, ServiceNow, and Boto3. Seeking a dynamic role to apply technical expertise to drive innovation and efficiency.

Skills

- **Languages:** Python, SQL, Java
- **Technologies:** AWS (Lambda, EC2, S3, CloudFormation), Boto3, RESTful APIs, Docker, Flask, FastAPI, Django, Informatica
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Tools:** Git, Jenkins
- **Machine Learning:** LLMs (Large Language Models), TensorFlow, Keras, GPT
- **Other:** Data Analysis, ETL Processes, API Integration, Automation, Software Development, Backend Development, Cloud Solutions, Data Processing, System Optimization, Code Quality

Experience

LTIMindtree (Zendesk) | Python Developer | October 2024 – Present

- Developing backend systems and APIs using Python, Flask, and FastAPI to improve customer service solutions. 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.

LTIMindtree (Aspect Project) | Python Backend Developer | September 2023 – September 2024

- Designed and developed backend solutions for the Aspect platform using Python, FastAPI, and Flask, creating scalable, high-performance APIs.
- Integrated LLMs (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.

LTIMindtree (Travelers - Client) | Python Developer | 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.
- Collaborated with the team to integrate API solutions for automated data dumping into the client's database.

- Enhanced workflow efficiency by automating data extraction, reducing processing time and improving the accuracy of insurance document handling.

LTIMindtree (Internal Project - Aspect) | Product Engineer | September 2022 – April 2023

- Contributed to the internal Aspect project, developing 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.

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

- Underwent training on Informatica, gaining experience in data integration, transformation, and ETL processes.
- Developed proficiency in data management and migration strategies. Received training in SQL, Python, and Java.

Education

K.C. College of Engineering Management Studies and Research | B.E. in Electronics and Telecommunication | June 2022

- CGPA: 8.09

Shah and Anchor Kutchhi Polytechnic | Diploma in Computer Technology | June 2019

- Percentage: 76.59%

Projects

IBackPack (An AR Tour Guide App) | [Final Year Project](#)

- Developed an AR tour guide app using Unity, displaying location, street map, ratings, and nearby locations.

Telegram Bot with Weather Forecast (Python) | [Project Link](#)

- Developed a Telegram bot using python-telegram-bot and OpenWeatherMap API, providing weather forecasts based on user location.

WhatsApp Bot (Flask, Twilio, MongoDB) | [Project Link](#)

- Developed a WhatsApp chatbot for a bakery using Flask, Twilio API, and MongoDB, allowing users to place orders and check bakery information.

Certifications

- Multidisciplinary Conference on Engineering Science & Technology (MCEST 2022) – Presented Ibackpack: An AR Tour Guide App.
- Python Certifications
- Generative AI Certifications
- [Complete List](#)