Rajat Kumar Barguzar

Senior Analyst

PERSONAL INFORMATION

✉ **Email**
rajatkumar.c21@gmail.com

📞 **Mobile**
(+91) 9876850778

💼 **Total work experience**
4 Years 7 Months

KEY SKILLS

Python

Machine Learning

UiPath

Computer Vision

Power BI

Artificial Intelligence

Azure cloud

AWS cloud

Git

SQL

WireShark

Deep Learning

NLP

LLM

Gen AI

OpenAI

PROFILE SUMMARY

Experienced IT professional with expertise in Business Intelligence analysis, data mapping, and user acceptance testing. Skilled in cultivating client relationships to drive extended engagements and business growth. Proficient in Deep Learning for Computer Vision, specializing in advanced AI model development using GPT-4 and LLM. Excels in deciphering large datasets and drawing informed conclusions. Possesses 4+ years of IT experience with a focus on RPA development, particularly in UiPath, including end-to-end automation solutions implementation and documentation. Adept at handling high-pressure scenarios and leveraging strong analytical skills. Known for delivering impactful results and fostering collaborative work environments.

EDUCATION

2019 M.Tech
Punjab Engineering College (PEC)

2015 B.Tech/B.E.
Punjab Technical University (PTU)

WORK EXPERIENCE

Dec 2019 - Present Senior Analyst
EY

Experienced RPA Specialist and Gen AI Developer adept at solution identification, design, and implementation. Skilled in providing comprehensive training to teams, with a proven track record in handling server management and performing due diligence using Alteryx and Power BI tools. Excels in managing end-to-end Gen AI projects from development to deployment, ensuring seamless integration and optimization of automation solutions.

INTERNSHIP

Gemini

altyrex

Shell Scripting

Ubuntu

Postgresql

CosmosDB

Snort

Acunetix

OTHER PERSONAL DETAILS

City Chandigarh

Country INDIA

HOBBIES

Cricket, BodyBuilding, Drawing

LANGUAGES

- English
- Hindi

12 Months Disguise face detection
Indian Institute of Technology Delhi (IIT Delhi)

- Developed and optimized the "Disguise Face Recognition System" project, a part of the Face Recognition Toolbox for CDOT.
- Utilized Deep Learning techniques for solving object detection, image classification, and image segmentation problems in Computer Vision and AI.
- Applied OpenCV and NLP for research and development of the system.

Projects

2 Months ### VideoTextExtraction

- We developed a Flask application in Python that enables users to upload videos and extract speech text from them.
- This application leverages OpenAI's Whisper AI model to perform the speech-to-text conversion, ensuring accurate and efficient transcription of audio content from the uploaded videos.

1 Months ### Automated Excel to PowerPoint Presentation Using UiPath

This project involves automating the process of converting multiple Excel sheets, each containing multiple tables, into a PowerPoint presentation using UiPath. The client provided a comprehensive Excel file with several sheets, each filled with data tables. The goal is to create a new PowerPoint slide for each table, transfer the data from the Excel tables into PowerPoint tables, and apply specific color formatting to the tables and text as per the client's requirements. This automation streamlines the process, saving significant time and ensuring consistency in presentation formatting. Benefits:

- Save more than 40 hours in converting a single Excel file.
- There will be no more errors in output.
- The process is easily monitored as the BOT will run in a timely manner and Create appropriate report in case of failure and success. Also, there will be no human involvement during this process.

3 Months

DineMate Chatbot

DineMate is an intelligent chatbot designed to revolutionize the restaurant recommendation and food delivery experience. Similar to platforms like Zomato, DineMate provides users with personalized restaurant suggestions, menu browsing, and seamless food ordering capabilities. The project integrates advanced AI technologies and cloud infrastructure to deliver a user-friendly, efficient, and scalable solution for food enthusiasts and busy professionals alike.

Project Architecture;

DineMate's architecture is built for scalability, reliability, and performance. The core components include:

Frontend: A user-friendly interface accessible via a web application and Telegram.
Backend: Powered by a Flask web framework to handle API requests, manage user sessions, and interact with the AI chatbot.
AI Model: Utilizes Hugging Face's API to load and fine-tune open-source models for natural language processing.
Database: Stores user preferences, restaurant data, and order history.
Cloud

12 Weeks

WealthWiz Chatbot

WealthWhiz is built on a robust technology stack, incorporating secure data storage, AI integration, web framework development, cloud deployment, version control, and ongoing maintenance. This comprehensive approach ensures that WealthWhiz is not only functional but also reliable and secure.
Tech Stack Exploration
Langchain: For secure data storage and retrieval.
Google Gemini API: For integrating advanced AI capabilities.
Flask: A lightweight web framework for developing the chatbot interface.
AWS Services: For cloud deployment and scalability.
Git: For version control and collaborative development.

3 Weeks

Outlook Automation

Overview:

Automates sending personalized learning notifications to employees.

Uses UiPath to integrate Excel data processing, database querying, and Outlook email automation.

Excel Automation:

Reads input Excel file with employee details and sectors.

Creates a formatted template with color coding.

Filters and structures employee data.

Database Automation:

Configures ODBC to connect to the learning information database.

Queries database to retrieve sector-specific learning data.

Integrates retrieved data with processed Excel data.

Outlook Automation:

Designs email template in Outlook.

Populates template with personalized learning details for each employee.

Sends emails through Outlook using UiPath.

Benefits:-

- Personalization, Consistency, Scalability, Timeliness, Resource Optimization, Data integration, Customization, Enhanced Communication, Error Reduction, Professional development.

2 Weeks

Word Cloud generator

The Word Cloud Generator Web Application is an advanced tool designed to transform large text inputs into visually appealing word clouds, offering extensive customization options for users. This project is built using Python and leverages key libraries like Flask for the web interface, `wordcloud` for word cloud generation, `matplotlib` and `PIL` for rendering, and the `docx` library for handling Word document creation. The application allows users to input up to 50,000 words and provides various customization options, including selecting the color format, specifying the size of the word cloud, and excluding certain words from the final visualization. The backend processing involves efficient text handling to manage large inputs, filtering out specified words, and generating the word cloud based on word frequency and user preferences. The final output can be downloaded in multiple formats, including JPEG, JPG, and Word, ensuring versatility and usability across different platforms.

4 Days ○ **Sales Dashboard**

KPI's - Sales, No. Opportunities, Av. Opportunity Size, Av Velocity:
Help managers gauge an overview of their current sales position
Area Chart - Sales & Opportunities by month:
Help managers measure the flow of deals by month in relation to targets.
Donut Chart - Total sales split by marketing channel:
Allow managers to identify which channels require additional focus based on performance.
Clustered Bar Chart - Opportunities by sales stage, split by marketing channel:
Helps managers monitor the flow of opportunities and assist with progression
Bar Chart - Sales grouped by opportunity size:
Helps managers understand the dynamics of their sales business

1 Weeks ○ **Energy trade analysis**

Its a deep dive into the Energy Statistics Database to analyze global energy trade trends. Participants will explore the growth of wind energy, assess the decline of coal on an international scale, and investigate the correlation between energy consumption and national economies. By employing data analysis tools, participants will gain valuable skills in handling complex energy datasets and extracting meaningful insights to inform discussions on global energy trends and economic comparisons.

COURSES & CERTIFICATIONS

○ RPA Developer Foundation

○ RPA Developer Advanced

○ Microsoft Power BI

○ Generative AI with Large Language Models

○ Business Implications of AI: A Nano-course

○ AI, Business & the Future of Work

○ AI For Everyone