

Adarsh Gadekar

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EDUCATION

St. Xavier's College

bachelor's in computer science

Mapusa, Goa

June. 2017 – June 2020

Goa University

MCA

Taleigao, Goa

Pursuing, 2020 batch

EXPERIENCE

Data Scientist Intern

zapcom

Jan 2023 – July 2023

Bangalore, India

- Completed baseline training in Data Science, focusing on fundamental machine learning algorithms, data manipulation, and analysis techniques.
- Participated in team projects to apply theoretical knowledge in practical settings
- Contributed to research and development efforts

Data Scientist/Python Developer

Zapcom

July 2023 – Present

Whitefield, Bangalore, India

- Researched and implemented an OCR system using AWS Textract for automated rewards collection, involving Python, PostgreSQL, and Boto3.
- Developed a POC route optimization system to solve the Traveling Salesman Problem using geospatial data and optimization algorithms, including Folium, Open Route Service API and OR tools
- Engineered a chatbot interface utilizing OpenAI's GPT-4 and other GPT LLM models for dynamic data querying and interaction, deployed on AWS EC2 for robust, scalable performance.
- Implemented a clustering module using the HaversineClusterer for geospatial coordinate clustering, integrating dynamic KMeans and creating visualizations with Folium.
- Built a modular Flask API framework for dynamic microservices as per client's requirements; developed lightweight, scalable REST APIs for varied applications, including chatbot interactions.

PROJECTS

OCR (Optical Character Recognition) | *Python, PostgreSQL, AWS Textract, Boto3, Streamlit* Feb 2023 – Present

- * Researched and implemented AWS Textract for automated rewards collection via document scanning and data processing.
- * Developed Python scripts and utilized PostgreSQL for efficient data management and workflow automation.
- * Enhanced system reliability and performance, ensuring accurate OCR data extraction for business processes.

Chatbot Interface for Data Querying | *Python, Flask, AWS EC2, OpenAI GPT Models* July 2023 – Present

- * Led the design and development of a chatbot interface to query multiple datasets, optimizing for contextual interactions using GPT-4.
- * Implemented advanced NLP features, including chat history retrieval and a paraphrasing tool to improve user engagement.
- * Deployed and maintained the application on AWS EC2, ensuring robust performance and scalability.

Route Optimization System | *Python, Folium, Open Route Service API* August 2023 – November 2023

- * Engineered a hybrid optimization algorithm for the Traveling Salesman Problem using geospatial data.
- * Developed a route visualization tool with Folium and integrated real-time data using Open Route Service API.
- * Optimized algorithmic parameters to enhance route efficiency and system performance.

Clustering Module | *Machine Learning, Python, Pandas, Folium* August 2023 – November 2023

- * Designed and implemented the HaversineClusterer for efficient geospatial coordinate clustering.
- * Incorporated dynamic clustering algorithms and created visualizations to analyze spatial data.
- * Configured data outputs to facilitate easy integration and manipulation within other applications.

Functional Web API Wrapper | *Flask, Python, JSON, SQLAlchemy*

Jan 2023 – Present

- * Built a scalable Flask API framework as per client specifications to support dynamic microservices and RESTful API endpoints.
- * Focused on flexible, lightweight microservice architecture for enhanced system adaptability and maintenance.
- * Integrated SQL Alchemy for robust database interactions and management.

SQL Database Management | *SQL, RDBMS*

Jan 2023 – Present

- * Developed and maintained complex SQL database systems for optimized data storage, retrieval, and reporting.
- * Authored and refined stored procedures to automate and streamline database operations.
- * Implemented robust data extraction techniques, enhancing data analytics capabilities and business intelligence.

TECHNICAL SKILLS

Languages: Python, SQL

Machine Learning / AI: Linear Regression, Logistic Regression, SVM, Decision Trees, KNN, Clustering (K-Means), TensorFlow, Computer Vision, OpenCV, OpenAI GPT Models (3.5, 4, gpt-4-1106-preview), LLM, Langchain

Data Analysis / NLP: Pandas, NumPy, Natural Language Processing

Database Management: PostgreSQL, MySQL, SSMS, AWS RDS

Cloud Services: AWS (Textract, RDS, Boto3, EC2)

Software Development: Streamlit, Flask, Django, OCR (Optical Character Recognition), Error Handling and Exception Management, Logging, Code Refactoring, Geospatial Optimization Algorithms, Flask API Development

Version Control / Development Tools: GitHub, Docker, Google Cloud Platform, Openai Assistant

CERTIFICATIONS

Data Reporting and Analysis, LinkedIn Learning, 2023

Advance SQL for Data Science, LinkedIn Learning, 2023

Mastering OCR using Deep Learning and OpenCV, Udemy Certificate, 2023

AWARDS AND RECOGNITIONS

Certificate in Handling Multiple IPs, Issued by Zapcom Solutions Pvt Ltd, January 2023

Description: Recognized proficiency in handling multiple intellectual properties.