MADHUR PATIDAR

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PROFILE SUMMARY

Adept Application Engineer with a proven track record at Hexaview Technologies, enhancing system integration and data processing efficiency. Excelled in developing RESTful APIs and optimizing database performance, showcasing strong Python and collaborative skills. Achieved significant query time reductions, demonstrating a keen aptitude for software development and database management.

EDUCATION

Bachelor of Technology, LNCT, Bhopal   2019 - 2023

Computer Science and Engineering.

SKILLS

Languages and Frameworks:	Python, Django, FastAPI, DRF, Pandas Library, ETL Development, Data Pipeline Designing, OOPs, Data Structures, Algorithms, Database Management, Data Warehousing, Big Data Processing, Generative AI, LangChain, Amazon Redshift, Dremio
API Development:	REST APIs, JWT Authentication, API Integrations
Cloud and DevOps:	Azure Foundations, MS Certified Data Engineer Associate
Data Visualization and color services:	Power BI, Azure Data Factory, Databricks, PySpark, Synapse Analytics, Stream Data Analytics
Web Development:	Django, FastAPI
Database Management:	MySQL, PostgreSQL, Oracle
Tools and Platforms:	GIT, GIT LAB, GIT HUB, Visual Studio Code, PyCharm,Postman API

EXPERIENCE

Hexaview Technologies   Pune, India

Application Engineer   Sept 2022 - Present

Persistent Systems   Remote

Trainee Engineer   July 2022 – Sept 2022

PROJECTS

1. AI Chatbot:

Role: Back End Developer, AI Developer

The project is about an AI functionality using a Chatbot for Customer Support project aims to develop an intelligent, conversational virtual assistant to enhance customer service and support interactions for the client. This chatbot leverages generative AI technology to provide efficient, 24/7 assistance to customers seeking information or help with client's product and services.

- Gather customer queries, FAQs, and other relevant data to train the chatbot. Choose and fine-tune a generative AI model that best fits the project's requirements.
- Develop the chatbot's core functionalities, including response generation, integration with communication channels, and personalization features. Train the chatbot using the collected data and test its performance to ensure it understands and responds effectively.
- Integrate the chatbot into the company's website, social media, and messaging platforms. Educate customer support agents and customers on how to interact with the chatbot effectively. Continuously monitor the chatbot's performance, make necessary updates, and gather user feedback to enhance its capabilities.

2. Data Integration & Visualization: (Client)

Role: Data Engineer, Back End Developer, PowerBI Developer

This client is a leading financial firm based in the United States. The purpose of this project is to provide data pipelines to extract, transform and load data from different cloud locations or on-premises locations and then automate the data pipelines and validate the data according to the requirements. Pipeline updates were shared regularly via automated emails to the client. Power BI reports were created using the same data and then we made the Power Automate flows to send the reports to the end user.

- Understanding the data coming from different sources and getting that data to one storage account in Azure. Creating the database tables and structure to store the data after doing some transformation.
- Set up complete environment for development and production. Debugging Build and Release related issues for development updates every week.
- Lead the development team and QA team to make everything automated and created the reports to get all relevant data for the end users and monitoring the pipelines and reports.
- Creating the Power BI Reports and Dashboards. Get the data from the On-Premises location and cloud with the help of data factory and set up refreshing the reports automatically.

3. Wealth Hub Solutions: (Client)

Role: Python Devoper, Back End Developer

In this project, we developed Python ETL pipelines for a leading US trust administration firm to connect their Salesforce Cloud with various finance platforms like Addepar, Cheetah, Innotrust and many more. As they wanted to migrate their accounts, contacts, and other primary objects to portfolio management platforms and extract financials from those platforms, fill that in over the salesforce cloud. To address this, our bidirectional pipelines keep data flowing smoothly between systems, ensuring everything stays in sync. We've implemented this for over 15 clients, catering to their specific data sources and needs.

- Designing and developing Python ETL pipelines to connect Salesforce Cloud with various finance platforms and ensuring bidirectional data flow to maintain consistency.
- Implementing mechanisms to migrate new data entries from finance platforms to Salesforce, and vice versa and customizing pipelines to accommodate unique data sources and requirements of each client.
- Testing pipelines to guarantee reliability and accuracy in data synchronization and providing ongoing support and maintenance to optimize pipeline performance and address any issues promptly.

4. Granicus – Data Mesh Implementation (Client)

Role: Data Engineer

- Designed and implemented a **data mesh architecture** from scratch, ensuring scalable and efficient data processing.
- Managed **large-scale data movement and processing** using Amazon Redshift, optimizing query performance and storage efficiency.
- Integrated **Dremio** for data virtualization and **DBT** for data transformation, ensuring seamless data pipeline execution.]
- Developed **data visualizations using Highcharts**, enabling insightful analytics and reporting.
- Optimized **Redshift queries and schemas** to improve data retrieval and performance for analytical workloads.

- Ensured **data consistency, security, and governance** while handling massive datasets.

PERSONAL PROJECTS

1. Musinic Cover:

A webapp that is build up on Django and which is basically a platform to listen music and has thousands of music covers over it.

- Has multiple functionalities such as 'Create Playlist', 'Add to Favorites', etc.
- Allows streaming latest and high-quality music refreshed daily.
- Paid subscription for premium account for ad-free music and unlimited downloads.
- Implemented payment gateway for subscription.

ACHIEVEMENTS

- Leetcode: Solved over 300+ problems.

CERTIFICATIONS

- Data Engineer Associate - Microsoft
- Python Developer Certification - Google
- Django Development - Udemy
- Data Structures and Algorithms - UnAcademy