ISMILE BHARMAL - SOFTWARE ENGINEER - FLUTTER/AI/ML

SYNOPSIS

- More than 2 years in Flutter/AI/ML development, with a strong record in designing, developing, and deploying mobile applications and AI-ML driven solutions.
- Skilled in Flutter development for both mobile and web platforms.
- Hands-on experience in application architecture, design principles, coding, debugging, deployment, and monitoring.
- Adept at implementing design patterns such as Factory Pattern to enable dynamic model switching across platforms like OpenAI, Anthropic, LLaMA, and Claude.
- Notable experience in **Model Agnostic Chatbot Development** using FastAPI, StreamLit, ChainLit, and Postgres for dynamic query and graph-based interaction, delivering key business solutions within tight deadlines.
- Solid understanding of REST APIs, offline storage, ML Kit, and AI tools, with recent expertise in LangChain, LangGraph, and various LLM models.
- Demonstrated ability in developing proof of concepts (POCs) showcasing AI/ML capabilities and integrations.
- Proficient in integrating Firebase and Google APIs.
- Strong communicator, adept at collaborating with stakeholders and teams.

TECHNICAL EXPERTISE

- **AI and Machine Learning:** Proficient in using LangChain, LangGraph, and LangSmith,experience with LLM models such as OpenAI, Hugging Face, and ChatAnthropy, developed multiple POCs integrating AI functionalities.
- Currently focused on machine learning projects, image segmentation using **YOLOv11**, and leveraging Azure AI models for impactful solutions and **time series forecasting** using **ARIMA** and **SARIMA** models and implementation of **prophet** in time series .
- **Tools:** Pycharm CE,Replite, Android Studio , VS Code, PostMan, Xcode, Firebase CLI, Sublime, Spider ,**Cursor ai,** Langflow,Langgprah studio.
- **Language/Scripts:** Dart, Java, Python,html5.
- **Technologies/Skills:** Flutter, AR core,Flutter Web, Android (Java), Web Hosting with Firebase, ML kit with Firebase, Odoo (Beginner),LangChain,LangGraph,FastAPI,LangFlow,LangSmith,StreamLit,ChainLit,Yolo11,SAM,azure
- **DBMS:** MySQL, SQLite,Firebase,Postgres
- **Third-party tools:** Git, GitLab, Figma, AI tools and Extensions
- **Operating Systems:** Windows ,Ubuntu, macOS

PROJECTS

Project Title	Object Detection and Replacement System
Technology	AI, Python, FastAPI, StreamLit, YOLOv11, OpenCV, JSON, PostgreSQL,Roboflow
Team Size	1
Role	Developer
Role Description	• R&D on advanced object detection and segmentation using YOLOv11. • Analysis and integration of object detection models for dynamic variant replacement with labelling in roboflow. • Project planning, architecture design, estimation, and implementation of backend and UI. • Developing APIs and UI for instance-specific object modification and replacements.
Project Duration	2 months
Technical Description	OLOv11 for Object Detection,FastAPI Integration,Dynamic Instance Replacement,JSON-Structured Outputs,HTML5 UI
Company Involvement	Client Project

Project Title	Time Series Analysis
Technology	ML, Python, FastAPI,
Team Size	1
Role	Developer
Role Description	• R&D on advanced ARIMA and SARIMA and Prophet. • Analysis and integration of dynamic features understanding. • Project planning, architecture design, estimation, and

Project Title	Time Series Analysis
	implementation of backend. ● Developing APIs and UI for instance-specific object modification and replacements.
Project Duration	2 months
Technical Description	Finding Best P,D,Q value for the ARIMA and SARIMA ,feature engineering , time series data, data cleaning , data analysis, prophet
Company Involvement	Client Project

Project Title	Model Agnostic Chatbot
Technology	AI,python,FastAPI,StreamLit,ChainLit,postgres
Team Size	1
Role	Developer
Role Description	R&D,Analysis,Project Planning, Estimation, Development
Project Duration	1 months
Technical Description	postgres Database,StreamLit,graph UI,langGraph,query generation,fastAPI, **text-to-query-text/graph**
Company Involvement	Biztech Product

Project Title	PDF RAG app
Technology	AI,python,FastAPI,chromaDB
Team Size	1
Role	Developer
Role Description	R&D,Analysis,Project Planning, Estimation, Development
Project Duration	1 week

Project Title	**PDF RAG app**
Technical Description	authentication, FastAPI,RAG,Embeddings ,retrieval, no hallucination , embedded Flow
Company Involvement	Biztech Product

Project Title	**CF-Booking ChatBot**
Technology	AI,python,ChainLit,sqlite
Team Size	4
Role	Developer
Role Description	R&D,Analysis,Project Planning, Estimation, Development,Manager
Project Duration	1 months
Technical Description	Chainlit UI,Python-Flow, LangGraph with Agent work, interactive bot,All DML functions,thread maintaining, conversation memory
Company Involvement	Biztech Product

Project Title	**DeskXpand**
Technology	Flutter
Team Size	6
Role	Developer
Role Description	R&D,Analysis,Project Planning, Estimation, Development
Project Duration	2 months
Technical Description	Web API CRUD,UI Complexity,Login/LogOut Flow with Token management,Dynamic data flow, html text editor,Plugin Customization,File Operations,Third party Packages/Library,Multi -

Project Title	DeskXpand
	Language ,Git Flow,Asyns programming,Dynamic UI
Company Involvement	Biztech Product

Project Title	MappyField365
Technology	Flutter
Team Size	3
Role	Developer
Role Description	Project Planning, Estimation, Development
Project Duration	2.5 months
Technical Description	Firebase Firestore,Web API CRUD operations, UI Complexity, Live Chatting, File Sharing,Location Tracking,App Life Cycle Manage, Background service(Notification),Third Party Package/Library Integration,Push Notification,Cloud Messaging,Firestore structure manage,Microsoft Login,Web to Mobile Flow
Project Type	Biztech Product

Project Title	Style
Technology	Flutter
Team Size	4
Role	Developer
Role Description	Estimation, Development
Project Duration	4 months
Technical Description	Web API CRUD operations, UI Complexity,Flow optimization,Crash analytics,Multi Language Support,Push Notification
Project Type	Biztech Product

Project Title	**Magemob Admin and Inventory**
Technology	Flutter
Team Size	4
Role	Developer
Role Description	Estimation, Development
Project Duration	4 months
Technical Description	Web API CRUD operations, UI Complexity,Flow optimization,Multi Language Support,Push Notification
Project Type	Biztech Product