Adarsha C V

AI Developer | Deep Learning & LLMs | Python | AWS

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Profile

AI Developer with hands-on experience building and deploying advanced machine learning and deep learning models, including LLMs, RAG agents, and transformer-based architectures. Skilled in developing NLP pipelines, implementing GenAI-powered applications, and deploying full-stack AI systems with Vertex AI, Flask APIs, and AWS infrastructure. Proven ability to build production-ready tools for document intelligence, nutrition estimation, and chatbot automation using modern frameworks like LangChain, Streamlit, and n8n.

Professional Experience

autoliv india pvt ltd, *Data Science Internship*   Bangalore
- Developing and training machine learning models using PyTorch and TensorFlow. Focus on large-scale models, including Transformers and convolution-based architectures.optimizing resource utilization and minimizing lead times.
- Evaluating models using a range of quality metrics to ensure high performance and reliability.
- Working on making models production-ready, ensuring they are robust, scalable, and optimized for deployment.
- Handling and processing large datasets efficiently, adapting architectures and loss functions as needed to improve model performance.
- Experience in working with text data and large language models (LLMs)
- Deep understanding of machine learning ,deep learning and Natural language processing basics.
- Strong software and algorithm development skills. Participate in developing and reviewing code, design documents, use case reviews, and test plan reviews.
- Experience with AIML and Big Data technologies like – AWS SageMaker, Google Colab, Jupyter Notebook, Hadoop, PySpark, AWS EMR etc.
- Experience using business intelligence tools (e.g. Tableau, PowerBI) and data frameworks (e.g. Hadoop)
- Excellent understanding of machine learning techniques and algorithms, such as GPTs, CNN, RNN, k-NN, Naive Bayes, SVM, Decision Forests, etc

Education

N.M.A.M. Institute of Technology   08/2018 – 07/2022 | Udupi
Mechanical Engineering

N.M.P.U.C, *Pre-University College*   Sullia
PCMB

Skills

Deep Learning	●●●●●	Advanced Excel	●●●●●
Machine learning	●●●●●	Transformers	●●●●○
Computer Vision	●●●●○	TensorFlow	●●●●○
AWS	●●●●○	LLM	●●●●●
Tableau	●●●●○	Python	●●●●●

Certificates

- Data Scientist certified by simplilearn
- Python for Data Analysis
- Tableau certified
- AI and ML certified
- Advanced Excel
- SQL Training

Projects

Calorie Count App, *Technologies: Streamlit, Docker, AWS EC2, OCR/BLIP, LLMs, Python*   04/2025 – 05/2025

Developed an AI-powered web application that estimates **macronutrient values** — including **calories, protein, fat, and carbs** — from both **typed food descriptions** and **images of meal lists**.
- Designed a responsive **Streamlit UI** for users to upload food list via photos.
- Used **LLMs** to break down textual descriptions and **OCR/BLIP models** to extract food items from uploaded images.
- Integrated a nutrition parsing system to compute **detailed macro breakdowns** of meals in real time.
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- Targeted toward **gym-goers and fitness users**, providing a fast and intelligent way to estimate nutrient intake from real-world data.
- ✅ *Fully tested and deployed; used by fitness users to track meal nutrition conveniently across platforms.*

Vertex AI RAG Agent with ADK, *Tech: Vertex AI, Google Agent Development Kit (ADK), Python, GCP, REST APIs*   05/2025 – 06/2025

- Implemented a **Retrieval-Augmented Generation (RAG)** agent using **Google Cloud Vertex AI** and **Agent Development Kit (ADK)** to query, manage, and interact with document corpora via natural language.
- Developed agent tools to support operations like corpus creation, document ingestion (via Google Drive/GCS), corpus querying, metadata inspection, and deletion.
- Configured secure **Google Cloud authentication** and access management using gcloud CLI and service credentials for API interaction.
- Built logic to retrieve relevant documents and generate context-aware answers using Vertex AI models, enabling real-time document Q&A from unstructured data sources.
- Designed robust CLI interface for listing, updating, and querying document corpora with automatic embedding model configuration and error handling.
- ✅ *Deployed and tested in a fully authenticated Google Cloud project environment with Vertex AI API enabled.*

WhatsApp AI Assistant – Dance Academy FAQ Bot,
Tech: LangChain, Google Gemini, Python, Twilio, Flask, n8n, Business WhatsApp API, Streamlit, AWS

- Developed a **RAG-based AI assistant** using LangChain and Google Gemini to answer real-time queries about dance classes, schedules, fees, and instructors.
- Built backend services in **Python (via Cursor IDE)** and exposed functionality through a Flask-based REST API.
- Connected the assistant to **WhatsApp Business API** via **n8n**, triggering message workflows using HTTP nodes for end-to-end automation.
- **Built a dedicated Streamlit frontend** to showcase assistant behavior for stakeholders, allowing real-time Gemini-powered demos without WhatsApp dependency.
- Achieved flexible multi-channel delivery by decoupling the UI from messaging logic; deployed the full solution on **AWS** for scalable, production-ready access.
- ✅ *Tested in both WhatsApp and web environments with live business scenarios.*