

Aadhityaa S B MLOPs

📍 Chennai, Tamil Nadu

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🌐 aadhityaa SB

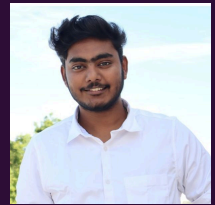
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👤 Profile

Passionate and results-driven Software Developer with 5+ years of hands-on experience in developing and implementing **Machine Learning models**, and advanced **Generative AI models**, including GANs and **Transformer models like GPT, LangChain, HuggingFace, and other LLM models**. Also, have experience in developing a **custom LLM model from scratch**. Proven track record of leveraging cutting-edge technologies to drive innovation in AI applications. Adapting to translating complex ideas into practical solutions, I thrive in dynamic and collaborative environments.

🧠 Technical Skills

Generative AI (LLMs)

- **OpenAI (GPT-4, ChatGPT) - Hugging Face Transformers - LangChain - Gemini API - Llama - Custom Models - GPT - BERT - T5 - Vertex AI** - and fine-tuned LLMs.
- **Retrieval-Augmented Generation (RAG)** Custom chatbots - multi-agent workflows - API-integrated conversational systems
- **RAG Chatbots - Agentic Chatbots Diffusion models - DALL-E - Stable Diffusion - Whisper AI** - voice-to-text systems - generative audio tools
- Developed and maintained end-to-end **MLOps pipelines** for managing LLM deployment lifecycles- Serverless architectures for AI applications using AWS Lambda.
- Building scalable **microservices** for AI workflows using Flask/FastAPI.
- **LangChain - OpenAI API - Ollama - Prompt Engineering - RAG pipelines**
- **Vertex AI - AWS Bedrock - AWS Sagemaker - NVIDIA NIM**
- Model Deployment - CI/CD for LLMs - LLM Pipelines - full stack AI development

AI Tools & Libraries

- TensorFlow - PyTorch - Scikit-Learn - Keras - NumPy - Pandas - Matplotlib
- Seaborn - NLTK (Natural Language Toolkit) - OpenCV - XGBoost
- Gradio - Machine Learning Algorithms - Computer Vision
- Natural Language Processing - Generative AI and LLMs - Hugging Face
- Vertex AI - Lang Chain - Transformers

Programming Languages

- Python - JavaScript - TypeScript - Solidity - Go lang - API integration

Cloud Services

- Google Cloud - Amazon Web Services

Operating Systems

- Linux - Ubuntu - Fedora - Windows - IOS - Debian

Project Management and Collaboration

- GitHub - Jira - Bit Bucket - Git Lab

Containerization and Operations

- GitHub Actions - Helm - Docker - Kubernetes

Robotics Skills & Other Tools

- Blockchain - Hyperledger fabric - R3 Corda - Ethereum
- IPFS - Cosmos
- Ansible - Arduino - Raspberry Pi - Hyperledger - X Code
- PLC board, Embedded systems, 3D printing, Robotics, Manufacturing, Arduino, Microcontroller, sensors etc.

Leadership & Communication Skills

- Led cross-functional teams to deliver AI solutions within deadlines

📄 Certificates

- IIT Kharagpur AI/ML
- Remark skills Data Science
- Certified Block-chain Developer

🎓 Education

MBA (Logistics and supply chain),
Anna University Correspondence
05/2023 – 12/2024 | Chennai

B.E. Mechanical Engineering, Vel
Tech High Tech Dr RR and Dr SR
Engineering college
05/2017 – 05/2021
600082, Chennai
Completed Engineering with 7.6 CGPA.

12th Std(CBSE),
Velammal Vidhyashram
05/2014 – 04/2017 | Chennai
Completed 12th st with 80% in CS group

🏆 Awards

DST Funding, Gov. of India
Successfully completed 1 funded project issued by the Department of Science and Technology (DST) worth Rs.8 lacks in the field of waste management.

ESVC 2019, ISIE India
Team Leader of ESVC & Completed Electric car in 2nd year for ESVC championship and won the future award.

HIT'sathon, Hindustan University
Won 1st HIT'sathon and received Rs.25,000 as cash price

Work Experience

AI Developer, Camu

05/2024 – present | Chennai

Camu is a cloud-based campus management solution serving over 1.5 million students across 550+ institutions in 11 countries.

Key Highlights:

- **Sole AI Developer:** Design, Development and deploying of LLMs built a custom RAG chatbots, and agent-based workflows currently used by 1.5+ Millions of Users which decreases the time by 40% to navigate between modules.
- **Backend-UI Integration Lead:** Leading a team of UI developers to integrate AI-powered backends to frontend.
- **Expertise in Generative AI:** Leveraging frameworks like OpenAI, GPT-4, Llama Models, Opensource Models, Bedrock and Much More for advanced chatbot and knowledge extraction systems.
- **API and Workflow Development:** Connecting APIs to chatbots and building scalable, agentic workflows for personalized user experiences. Created model deployment pipelines.

Software Developer, CLAR TECHNOLOGIES PVT LTD

05/2022 – present | Coimbatore

- **Leading a cross-functional team of 10+ software engineers:** Providing guidance, mentorship, and technical leadership to drive successful project execution and achieve project milestones within strict timelines.
- Developed the multitenant-based **SAAS platform**
- Working on a **deep-tier financing** platform for the supply chain industry using **Cosmos SDK, Cosmwasm, and IBC.**
- Used **Automated deployment** and configured tasks using **Ansible**, ensuring consistency and reliability in deployment processes for more than **800+ VMs in private data centers.**
- Developed a **custom AI model** for an AR company to detect an object and project its AR visuals.
- Developed an **Internal Developer Portal** for developers to find important information and also used **GitHub Actions with Ansible** to monitor all the VMs and services that are running.
- Design and implementation of **AI infrastructure**, contributing significantly.
- Collaborated with HR for **recruitment and hiring** processes, including conducting **interviews and evaluating** candidates.
- Currently working on **Blockchain Supply chain** using go lang.

Founder, Fearless Thinkers pvt. ltd.

12/2018 – 04/2022 | Chennai, India

- Registered under the **Government of TN and Funded by DST.**
- **Patented a Machine** that converts Bio-wastes to Manure:
 - Gathered data on various types of **bio-wastes, solid wastes, metals**, and their compositions. Collected information on the **chemical properties of the resulting manure and its impact on crop growth.** Developed a machine learning model to **detect and segregate different types of waste.** Trained the model on a diverse dataset containing images or sensor data of various waste materials. Designed a process that involves a catalytic reaction to convert bio-wastes into nutrient-rich manure and increase **yield by 30+%**. Scaled up the production and distribution of **AI-enhanced manure manufacturing.**
- **Agriculture-Based Leaf Disease Detection Models:**
 - Development of custom models from scratch for detecting leaf diseases in agriculture. Utilized convolutional neural networks (CNNs) for accurate identification and classification of plant diseases.

CONTRIBUTIONS

Public Speaker

2022 – present

- Speaker at Asia's Largest AI conference 2024 **TechX conf.**
- Participating as a **Speaker in tech conferences, Organising and Hosting** events.
- Took multiple sessions as a Speaker in **50+ Meetups including TechXconf(Asia's Largest AI conference), Elastic Meetup Chennai, AICamp Meetup, Global AI Meetup**, and much more.
- Actively writing **tech blogs** about **AI, Generative AI, Blockchain, Cloud, and DevOps.**

Projects

Bio Combin

05/2018 – 08/2020

Completed and patented Bio-Combin. An organic converter machine that converts wastes into manure quickly and gained funding from DST under TN startup funded 8 lack rupees and was managing a team of 4 people. brought together and founded a startup company named Fearless Thinkers. Its idea is to separate all types of wastes with AI integrating with mechanical engineering.

Custom AI model

Developed a custom AI model to detect objects integrated with Raspberry Pi to make it handy and that can be implemented in many locations to detect number plates ambulances and vehicles in huge traffic. and also generated API endpoints to do further processing.

Fine Tuning BERT model

Added custom datasets and logs of blockchain-based projects and documented errors faced in the process of development and its solutions also. Used only for internal purposes.

Declaration

I declare that all the details furnished by me are true and best to my knowledge and I hereby implore that my application may be considered and given a chance to grow mutually under your guidance

Aadhityaa SB
Chennai