

Darshan BR

AI/ML Engineer

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Professional Summary

Dedicated and performance-driven AI/ML Engineer with over 1.5+ years of experience in developing, fine-tuning, and deploying machine learning models, LLMs, and TTS systems. Specialized in NLP, OCR, Computer Vision, and multimodal learning using open-source and cloud-based models. Proven ability to optimize cost by replacing paid APIs with scalable local solutions. Passionate about building intelligent systems that deliver measurable impact.

Professional Experience

DataSpark AI Solutions

AI/ML Engineer - Chennai, TamilNadu | 12/2024 – Present

Roles & Responsibilities:

- Collaborated on fine-tuning models such as LLaMA, Qwen, and DeepSeek. Packaged and deployed them in Dockerized FastAPI services for inference.
- Developed OCR workflows using Qwen-VL and MMOCR to extract text from diverse document formats. Improved preprocessing steps (e.g., image resizing, denoising) to boost accuracy.
- Transitioned from cloud-based Text-to-Speech (Google Cloud) to local solutions. Tuned on-premise TTS setups to reduce latency and cut costs by ~40%.
- Used LangChain and LlamaIndex to create basic Retrieval-Augmented Generation pipelines. Managed vector stores (e.g., ChromaDB) for embedding storage and similarity search.
- Containerized image generation models (e.g., SDXL) and set up CI/CD pipelines to push updates. Monitored GPU usage and scaled instances as needed.
- Created Docker containers and CI workflows (GitHub Actions) for automated testing and deployment. Monitored model performance using simple logging and alerts.
- Worked closely with backend developers and data engineers to integrate ML services into product features. Guided interns on coding standards, code reviews, and basic ML concepts.

Rubixe AI

Data Science Consultant - Bangalore, Karnataka | 12/2023 - 11/2024

Roles & Responsibilities:

- Spearheaded Python-driven data manipulation and statistical modelling, revolution data-driven decision-making processes.
- Utilized SQL and Power BI to meticulously scrutinize intricate datasets, resulting in a substantial 20% reduction in fraudulent activities.
- Engineered cutting-edge machine learning models (logistic regression, decision trees, random forests) to meticulously refine customer segmentation strategies.
- Amplified team productivity through a diverse skill set, amalgamating programming expertise, statistical analysis, and data visualization with exceptional efficiency.

Skills

- Curriculum Expertise: Machine Learning, Deep Learning, Neural Networks, NLP, Computer Vision, Text-to-Speech, Speech-to-text.
- MLOps: Docker, CI/CD Pipelines, Git, MLflow, Airflow, DVC.
- Frameworks & Tools: LangChain, LangGraph, LlamaIndex, FastAPI, Transformers (Huggingface), Agentic AI Frameworks.
- Programming & Databases: Python, SQL, Vector DBs.
- Cloud Platforms: AWS, GCP, Azure.

Projects

1. IELTS Preparation App (<https://ieltsgenai.com/>)

- Developed AI-Powered Speaking Model: Designed and implemented an AI-driven speaking test module using Python, GPT models, and prompt engineering, simulating real-time IELTS speaking tests with automated feedback and band score generation based on IELTS criteria. Integrated OpenAI APIs.
- Created AI Speaking Playground: Built an interactive platform for users to practice communication skills, integrating cloud and local TTS/STT models with Flask and MongoDB for seamless user experience and real-time performance tracking.
- Engineered Customer-Facing Chatbot: Developed an NLP-based chatbot using Python and MySQL to engage website visitors, answer queries, and enhance user retention, improving customer interaction and platform accessibility.
- Integrated Advanced Technologies: Leveraged MongoDB, MySQL, Flask, and cloud TTS/STT models for robust data management and real-time processing, ensuring scalable and efficient platform performance.
- Managed Development and Deployment: Utilized Git for version control and collaborated on email configuration and cloud deployment, delivering a production-ready proof-of-concept (POC) that aligned with user needs and business goals.

2. AI Interview Platform (<https://intervu.in/>)

- Developed AI Backend and Interview System: Built end-to-end AI backend using Python, GPT models, and prompt engineering (Chain of Thought, Tree of Thought, Zero-Shot, Few-Shot) to create dynamic HR, managerial, technical, and visa interview simulations tailored to users' experience and resume data.
- Implemented NLP and Real-Time Interaction: Integrated NLP, STT, and TTS models with Flask and MongoDB to enable natural, human-like AI interviewer questions and real-time user interactions, enhancing speaking skills and confidence for freshers and technical job seekers.
- Designed Automated Feedback System: Engineered an automated feedback and band score generation system, leveraging NLP to provide personalized, natural feedback via email configuration, reducing interview fear and improving user performance.
- Utilized Web Scraping for Data Enrichment: Employed Selenium and BeautifulSoup to scrape relevant data, enhancing AI question generation and aligning interview content with industry-specific technical and HR requirements.
- Ensured Scalable Deployment: Managed MongoDB for efficient data storage and Flask for robust API development, delivering a scalable proof of-concept (POC) that supports final-year students and unemployed professionals in real-time interview practice.

Education

- BCA, Government Science College, Hassan, Karnataka | 05/2020 - 05/2023
- Certified Data Scientist, DataMites Institute, Bangalore

Certifications

- Certified Data Scientist: IABAC
- MLOps Foundations: iNeuron
- Machine Learning: Simplilearn