ABBAS TATI

Data Scientist │ Machine Learning & AI Engineer │ NLP & Deep Learning Specialist

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SUMMARY

AI Engineer with strong experience in LLM systems, automation workflows, voice agents, RAG pipelines, OCR tools, and AI chatbots. Skilled in developing end-to-end pipelines using Python, TensorFlow, LangChain, n8n, Supabase, Retell AI, WhatsApp Cloud API, and OpenAI APIs. Experienced in deploying production-grade applications and building scalable AI workflows.

WORK EXPERIENCE

AI/ML Engineer │ AppSynergies Technologies Ltd., London (Remote)   July 2025 - December 2025

- Built end-to-end RAG systems using Supabase Vector DB + LangChain + n8n, including ingestion pipelines, embeddings, retrieval orchestration, and GPT-based response generation.
- Designed Retell AI voice agent systems for appointment bookings, support workflows, feedback calling, etc.
- Integrated Retell AI with n8n, WhatsApp Cloud API, Email APIs, and Supabase automations, enabling fully automated multi-channel communication systems.
- Developed and deployed an OCR Data Extractor (Streamlit + Python + LangChain) on Render, integrated with n8n for real-time automation and structured data processing.
- Built enterprise-grade n8n automations, including token lifecycle management (auto-refresh flows), latency optimization, workflow debugging, system reliability, and failure recovery.
- Created web scraping workflows integrated with LLMs and databases for knowledge systems and chatbots.
- Designed and delivered AI-powered marketing automation pipelines combining Voice AI + WhatsApp + Email workflows with Supabase triggers and CRM integrations.

Data Science Intern │ Bharti Airtel Ltd. - Gurugram, Haryana   January 2024 - April 2024

- Assisted in building a large-language-model (LLM)–driven multi-agent framework for configuring and analyzing Airtel's Prepaid, Postpaid, DTH, and bundled plans.
- Prepared and cleaned plan-level data, created exploratory analyses, and supported model evaluation to enable insight generation for business teams.
- Collaborated with the senior engineer on integrating APIs for dynamic data retrieval and plan configuration.

PROJECTS

AstroSense — AI Astrology Assistant   December 2025

- Built an automated astrology chatbot pipeline with dual-LLM orchestration; handled intent detection, info validation, VedicAstroAPI integration, and context-strict response generation.
- Tech: n8n, VedicAstroAPI, HTTP Workflows, JSON Orchestration, LLMs, Groq.

CareerPathAI — Career Counselor Bot   August 2025

- LLM chatbot for personalized career guidance; built recommendations, course/job fetcher, and interactive UI.
- Tech: Python, LangChain, GPT-4, Streamlit, REST APIs, Docker.

Seq2Seq Chatbot   Aug 2025

- Built an encoder-decoder LSTM chatbot with preprocessing, tokenization, vocab handling, and checkpointing for context-aware responses.
- Tech: Python, TensorFlow/Keras, NumPy, NLP tools.

CricVision – IPL Match Outcome Predictor   July 2025

- Predicted IPL match outcomes using ML with venue, team, weather & historical stats; delivered win probabilities + visual analytics for 50+ fixtures.
- Tech: Python, Pandas, NumPy, Scikit-learn, Plotly, XAMPP.

EDUCATION

Bachelor of Computer Applications   April 2025

- Brihan Maharashtra College of Commerce (BMCC) - Pune, Maharashtra - Scored 7.44 CGPA

Data Science, Machine Learning, DL, NLP Bootcamp   June 2025

- Krish Naik - Udemy

ADDITIONAL INFORMATION

- Programming: Python, SQL, Pandas, NumPy, DSA
- AI/ML: Machine Learning, Deep Learning, TensorFlow, Keras, PyTorch
- LLMs & NLP: LangChain, Transformers, RAG, Vector Databases, Prompt Engineering
- Automation: n8n, Supabase (DB + Vector DB), Retell AI, WhatsApp Cloud API, Email APIs
- Tools: Streamlit, Flask, Docker, Git, AWS, Azure
- Other: Web Scraping, API Integrations, Deployment (Render/Docker)