

ADITYA SUYAL

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SUMMARY

AI/ML Engineer specializing in multi-agent systems, retrieval-augmented generation (RAG), and LLM architectures. Production experience building autonomous agent systems at DRDO, Shell Global, and Analytics Vidhya, with a first-author research paper on multi-agent conversational AI.

EDUCATION

Birla Institute of Applied Sciences, Bhimtal, Uttarakhand **Aug 2023 – Aug 2027**
Bachelor of Technology in Computer Science *CGPA: 7.2 / 10.0*

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL, JavaScript, Rust
Model Architectures: Encoder-Only (BERT), Encoder-Decoder (T5, BART), Decoder-Only (GPT, LLaMA), Transformers, RNNs, LSTMs
AI/ML Frameworks: PyTorch, TensorFlow, LangChain, LlamaIndex, CrewAI, AutoGen, LangGraph
LLM Technologies: GPT-4, Gemini Pro, Llama 2/3, Mistral, Stable Diffusion, LoRA, QLoRA
Vector Databases: FAISS, Pinecone, ChromaDB, MongoDB
Cloud & Deployment: AWS (EC2, Lambda), Docker, Kubernetes
AI Techniques: RAG, Multi-Agent Systems, Memory-Augmented LLMs, MLOps, LLMOps

EXPERIENCE

AI Researcher – DIBER & DIPAS, DRDO **Jun 2026 – Present**
On-site

- Conducting research on 24-hour temporal and long-term weather forecasting (radar, satellite, NWP models) and building predictive models to optimize energy allocation for hybrid power/energy management systems.

AI Agent Development Intern – Shell Global Pvt. Ltd. **Dec 2025 – Feb 2026**
Remote

- Built production-grade multi-agent AI systems (LangChain, CrewAI) and autonomous tool-calling workflows with GPT-4/Llama, reducing manual processing by 65% and achieving 88% task accuracy.

Generative AI Intern – Analytics Vidhya **Oct 2025 – Dec 2025**
Remote

- Developed RAG pipelines processing 10K+ documents at 92% retrieval accuracy and built scalable AI APIs serving 500+ concurrent users with optimized FAISS embeddings.

PROJECTS

Hybrid Multi-Agent Adaptive Conversational AI Architecture **2026**
Python, CrewAI, Llama 3.3 (Groq)

- First-author research paper (Mar 2026) introducing a 10-agent modular conversational framework combining supervisor-based routing, competitive multi-agent debate (LLM-as-a-Judge), and expertise-aware personalization.
- Achieved +11.9% accuracy over a single-model baseline (150-query blind evaluation, $p < 0.001$); reduced unnecessary tool API calls by 31.4%.

Memory-Augmented LLM using LSTM (Hybrid Intelligence) **April 2026 - June 2026**
Python, PyTorch, LSTM, Transformer-based LLMs

- Designed a hybrid architecture combining Transformer-based LLM reasoning with LSTM-based temporal memory for long-term context retention, without increasing context window size.

COREP Regulatory AI Assistant | RAG & LLM **Feb 2026**
FastAPI, Streamlit, FAISS, Groq, Docker

- Built an LLM-powered RAG system for PRA COREP reporting, generating structured outputs for C01.00 and C02.00 templates.
- Processed 5K+ queries at 90% relevance, reducing latency from 3s to 0.4s via optimized FAISS retrieval, validation, and aggregation.

Agentic AI Multi-Agent System for EV Research **Sept 2025**
Python, Agno, Groq, AWS

- Architected a 5+ agent supervisor-co-worker system for EV market/policy analysis, cutting manual research effort by 70% via automated AWS-deployed reporting.

ACHIEVEMENTS & CERTIFICATIONS

Awards: 1st Place, NASA Space Apps 2025 (North India Zone) | 1st Place, TechFest AI in Education | 3rd Place, Grafest AI in Healthcare | 2x State AI Hackathon Finalist

Certifications: Multi-Agent Systems (DeepLearning.AI), Azure AI Fundamentals, HackerRank SQL Advanced, Applied AI Lab & Data Science Lab – 16-Week Program (WorldQuant University, USA)

Leadership: Placement Cell Head, Birla Institute of Applied Sciences (Jun 2026 – Present) | AI/ML Domain Head, College Coding Club (Aug 2025 – Jun 2026) | Campus Ambassador, IIT Madras BS in Data Science Program (Jul 2024 – Jul 2025)