

# Dhilip S

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## Experience

Junior Associate  
KGiSL

September 2025 – Present  
Coimbatore, India

- **AI-Driven Document Intelligence:** Designed and deployed Python-based AI/ML systems using LLMs, RAG pipelines, OCR, and NLP to automate document understanding, data extraction, classification, and decision workflows.
- **Multi-Agent Automation Frameworks:** Built LangGraph-powered multi-agent workflows for PO-Invoice comparison, mismatch detection, and dispute identification, delivering high-accuracy automated processing.
- **End-to-End Intelligent Pipelines:** Implemented integrated AI automation pipelines combining Python, embeddings, vector databases, and OCR preprocessing to enhance document intelligence and operational efficiency.
- **CoE Research & Agentic AI:** Led research and cross-functional collaboration within a Center of Excellence to develop Agentic AI and ML solutions; collaborated directly with clients throughout project lifecycles ensuring requirement clarity and successful delivery.
- **Permit Management Automation:** Created end-to-end permit solutions using Power Pages, Power Automate, and SharePoint with role-based access, automated workflows, dynamic data population, and Azure AD security, reducing manual effort significantly.

Trainee  
KGiSL

October 2024 – August 2025  
Coimbatore, India

- **Prediction & Classification Models:** Designed and deployed forecasting and classification models, improving prediction accuracy by 15% across business workflows.
- **Computer Vision Applications:** Built object detection and matching systems to automate visual recognition tasks, reducing manual review time by 40%.
- **Model Training and Fine-Tuning:** Customized and fine-tuned pre-trained models on domain-specific datasets, boosting performance and precision for client solutions.
- **RAG and Agentic RAG Architectures:** Developed retrieval-augmented generation pipelines for context-aware query answering, improving response relevance and answer quality.
- **Entity Recognition & OCR:** Implemented NLP-based NER pipelines on large-scale unstructured text; engineered OCR solutions for structured, semi-structured, and handwritten documents achieving up to 90% extraction accuracy.

Developer Intern  
Bejawar Innovative Technologies

June 2023 – February 2024  
Hyderabad, India

- **Full-Stack AI Solution Development:** Gained hands-on expertise in LLMs, Generative AI, frontend and backend development, Flask, OpenAI API integration, and cloud deployment for scalable AI applications.
- **LLM Integration & API Orchestration:** Integrated GPT-based APIs with backend services, implemented prompt engineering strategies, and optimized response handling for improved accuracy and latency.
- **Vector Search & Retrieval Systems:** Implemented embedding-based retrieval workflows using vector databases to enhance contextual response generation and knowledge grounding.
- **Collaboration & Communication:** Contributed effectively within cross-functional teams, benefited from mentorship that accelerated skill development, and developed strong communication skills for dynamic environments.

## Education

KGiSL Institute of Technology  
B.E. Electronics and Communication Engineering (ECE)

2020 – 2024  
CGPA: 7.92

## Projects

PO, Invoice & Dispute Multiagent  
KGiSL

Oct 2025 – Nov 2025

- **Multi-Agent System Design:** Architected a LangGraph-based multi-agent system (PO Agent, Invoice Agent, Dispute Agent) to automate end-to-end PO-Invoice validation, reducing manual verification effort by 70%.
- **Extraction & Validation:** Developed PO and Invoice agents achieving 92% extraction accuracy with JSON outputs and Excel reports; implemented conditional PO number validation with 100% consistency.
- **Dispute Detection & UI:** Built a Dispute Agent detecting quantity, pricing, and tax mismatches with 88% precision; designed a Streamlit UI improving processing speed by 60% across finance operations.

## Digital Forms KGiSL

Jul 2025 – Oct 2025

- **Role-Based Workflow Automation:** Developed permit, extension, and closure forms with dynamic role-based access; integrated Power Automate flows reducing manual effort by 65% and SharePoint lists ensuring 99% data accuracy.
- **Smart Automation & Lifecycle Design:** Enabled automated field population improving submission accuracy by 80% and built end-to-end lifecycle workflows improving process transparency by 70%.
- **Azure AD Authentication Integration:** Implemented secure login and role-based authentication using Azure Active Directory, ensuring controlled access and enterprise-grade identity management.

## Finance Agent — Agentic RAG Application KGiSL

Jun 2025

- **RAG System Development:** Built a Retrieval-Augmented Generation system using LangGraph, LM Studio, ChromaDB, and Streamlit for intelligent document querying with adaptive vendor-table selection logic (85% accuracy improvement).
- **Vectorized Retrieval Architecture:** Designed embedding-based vector search pipelines using ChromaDB for high-precision document retrieval (90% precision) with robust fallback handling ensuring consistent response generation.

## AztrBot and AztraCore Development *Bejawar Innovative Technologies*

June 2023 – February 2024  
Hyderabad, India

- **AI Chatbot & Multi-LLM Integration:** Developed a real-time GPT-4 chatbot and integrated multiple LLMs (Mistral, GPT-4) with external APIs, reducing response time by 25% and improving query precision by 30%.
- **Vectorized Retrieval Architecture:** Implemented Aztracore embedding-based vector database to enhance contextual understanding and retrieval efficiency for knowledge-grounded responses.
- **Full-Stack Application Development:** Built a dynamic user interface using HTML, CSS, JavaScript, and Flask, enabling seamless frontend-backend integration and scalable deployment.

## Technical Skills

**Programming Languages:** Python, SQL, JavaScript, HTML, CSS

**AI / Machine Learning:** Machine Learning, Generative AI, Agentic AI, Agentic RAG, Transformers, PyTorch, YOLO, Optical Character Recognition (OCR)

**LLM & Agent Frameworks:** LangChain, LangGraph, Haystack

**Large Language Models:** Mistral, LLaMA, DeepSeek

**Natural Language Processing:** Text Classification, Sentiment Analysis, Named Entity Recognition (NER)

**Databases & Vector Stores:** PostgreSQL, MongoDB, SQLite, ChromaDB, PgVector

**Automation & Agent Platforms:** UiPath, UiPath Agent Builder, UiPath Maestro, Power Automate, Power Pages, Copilot Studio, RPA

**Tools & Development:** Git, VS Code, Google Colab, Kaggle, Hugging Face, LM Studio, Ollama, Roboflow, LabelImg

**Cloud & Platforms:** GCP, Firebase, Supabase, Azure Active Directory

## Achievements

**Academic Excellence (2024):** Received Highest Number of Coursera Certifications — ECE Department, Recognized as Special Achiever during Annual Day 2024.

**Hackathon Participation:** Participated in Honeywell India Youth Teckathon 2023 and HACK-A-BOT 2023.

**Competition Winner (2022):** Winner — UiPath Citizen Developer Skill-A-Thon, Ranked Top 2 — Mixed Signal SoC Design Marathon; Top 4 — Mixed Signal Circuit Design Marathon.

**Media:** Published in *The Times of India* and *The Hindu*.

**World Record:** Participant — *Guinness World Record Event “AI for India 1.0”*.

## Certifications

**Agentic AI:** Dual certifications from Hugging Face’s Agents Course covering agent fundamentals, frameworks, RAG integration, observability, and autonomous AI deployment.

**AI & ML:** ChatGPT for Everyone (Guvi), IBM AI Engineering, IBM AI Foundations for Business, Career Essentials in Generative AI (Microsoft & LinkedIn), AI for India 2.0 (Guvi).

**RPA:** UiPath Certified Professional – Agentic Automation Associate (UiPath-AAv1); specializations in Autopilot, Maestro, and Agent Builder.

**Programming & Development:** Certified in various programming languages and electronics courses through Coursera.

## Languages

**Languages:** English (Fluent) — Tamil (Fluent)