# Sudarshan Lakshate

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## PROFESSIONAL SUMMARY

Senior AI Annotation Engineer with hands-on experience building **Generative AI systems, Agentic AI workflows, ML/DL models, RAG pipelines, and MLOps deployments**. Skilled in developing scalable AI applications, orchestrating ML pipelines, fine-tuning LLMs, and integrating multimodal models. Background includes **2 years of end-to-end AI/ML pipeline support**, model evaluation, vector database optimization, and automating analytics workflows. Proven ability to convert business problems into intelligent, production-ready AI solutions.

## WORK EXPERIENCE

**Eligarf Technologies PVT LTD**                                                              Magarpatta, Hadapsar
**Senior AI Annotation Engineer**                                                        Dec 2023 to 28th Nov 2025

- Designed and deployed end-to-end AI solutions in **Machine Learning, Deep Learning, Generative AI, Agentic AI, and Reinforcement Learning** for enterprise applications.
- Built and managed **MLOps** pipelines using MLflow, Airflow, Docker, and Kubernetes, automating model training, deployment, and monitoring.
- Engineered **OfficeBuddy**, a GenAI-powered internal assistant using RAG over Slack + Confluence, reducing manual search by **90%**.
- Created Generative AI applications using LLMs, LangChain, and Hugging Face Transformers, integrating RAG pipelines and vector databases (FAISS, Pinecone) for improved context and scalability.
- Monitored key operational metrics: **Shrinkage %, Availability %, SLA Adherence, Idle Time, and Break Compliance**.
- Achieved **97%+ quality benchmarks** while supporting the team with AI/tech queries via Slack and managing IT ticket escalations.
- Acted as a communication bridge between team lead and team members—**resolving issues & Escalations, reviewing QA audits, and stabilizing workflows.**

## PROJECTS

1. **GenAI - OfficeBuddy - Employee Assistant Chatbot - Eligarf Technologies PVT LTD (2025) (AWS)**
   - RAG-based AI assistant enabling enterprise-wide knowledge search across Slack + Confluence with semantic retrieval.

2. **VBA - Automation of Job Assignment System (Excel + VBA) (2023) – WNS Global Services**
   - Built an Excel-VBA tool at WNS Global Services **to automate Team Leads task of job assignment from CSV files, categorize tasks by TAT,** and minimize manual errors and missed deadlines.

3. **GenAI - Suggestify — Recommendation Assistant (Streamlit Cloud)**
   - AI system recommending personalized movies, books, podcasts, etc., deployed on Streamlit Cloud. **saving users time by removing endless scrolling.**
   - **Give it a TRY:** https://masterrecommender.streamlit.app/

4. **GenAI - AudioScribe - Automated Audiobook Creation Platform (Docker)**
   - Automates audiobook creation from PDFs using TTS models; containerized for scalable deployment.
   - **Give it a TRY:** [Docker Image](#) **:** docker pull sudlak/audioscribe-app
   - docker run -p 8501:8501 -e OPENAI_API_KEY="sk-proj " audioscribe-app

5. **ML - Financial-Risk-Intelligence-Platform** – (XGBoost, LightGBM, Random Forest, AWS, FastAPI)
   - Integrated fraud detection + loan default prediction using XGBoost, LightGBM, RFC with FastAPI.
     [Readme.md](#)                                                              **Project Status: [ClickUp](#)**

6. **DL - AutoVision - LPR –** (YOLOv8 / YOLOv10 (Ultralytics), OpenCV, Tesseract, PyTorch)
   - Full LPR pipeline using YOLO detection + TrOCR OCR with modular MLOps pipeline.
     [Readme.md](#)                                                              **Project Status: [ClickUp](#)**

7. **AgenticAI - DataPilot AI –** (YData-Profiling, LangChain, LangGraph, OpenAI, FastAPI)
- Performs automated EDA, cleaning, feature engineering, and ML model training via autonomous AI agents.
  **Readme.md**                                                                    **Project Status: ClickUp**

8. **LLM - DharmaAI — Fine-Tuned LLM for Indian Historic & Cultural Texts (ByT5-small, mT5/Qwen-7B)**
- Custom ByT5/mT5/Qwen-based system for OCR correction, Sanskrit QA, and summarization.
  **Readme.md**                                                                    **Project Status: ClickUp**

9. **Data Science - Customer_360_Analytics**
- Built segmentation, RFM, CLV, and cohort analysis pipeline for customer intelligence.
  **Readme.md**                                                                    **Project Status: ClickUp**

10. **GenAI - HyperCreate AI Studio – (OpenAI TTS, Diffusion Models, LangChain, LangGraph)**
- Integrated LLMs, diffusion models, TTS, and multimodal chains for full-stack content generation workflows.
  **Readme.md**                                                                    **Project Status: ClickUp**

11. **Image Captioning with Deep Neural Networks (2023)**
- Developed an image captioning model in Python using CNNs for image processing and LSTMs for generating natural language descriptions.

## TECHNICAL SKILLS

- **Machine Learning & Deep Learning:** Model design, supervised & unsupervised learning, neural network architecture, model training, hyperparameter tuning, optimization, transfer learning, evaluation metrics
- **Generative & Agentic AI**: LLM fine-tuning, RAG pipelines, autonomous agent design, multi-agent frameworks, knowledge graph integration, prompt engineering, context retrieval, conversational AI
- **Reinforcement Learning:** Policy gradient methods, Q-learning, reward modeling, simulation environments, decision optimization, real-time strategy learning
- **MLOps:** End-to-end ML pipelines, model deployment, CI/CD automation, Docker, Kubernetes, MLflow, model versioning, monitoring, retraining workflows, production scalability
- **Natural Language Processing (NLP):** Text embeddings, semantic search, vector databases (FAISS, Chroma), Transformers, tokenization, NER, sentiment analysis, language modeling
- **Data Engineering:** ETL/ELT pipelines, data ingestion, preprocessing, feature engineering, data validation, workflow orchestration (Airflow)
- **Programming & Tools:** Python, SQL, PyTorch, TensorFlow, LangChain, LangGraph, Hugging Face, FastAPI, REST APIs, Streamlit, Git, GitHub, Power BI, Excel
- **Cloud & DevOps:** AWS (SageMaker, Bedrock, Lambda), GitHub Actions, containerization, CI/CD

## EDUCATION

**Dr. D.Y. Patil Polytechnic, Akurdi,** Pune
Diploma In Computer Engineering – 64.00%                                                                    2018

**Siddhant Collage of Engineering**
Bachelor of Engineering in Computer Science                                                                    2023
Cumulative GPA: 8.70/10
Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Algorithms; Artificial Intelligence

## INTERESTS

Learning new technologies (e.g., **Quantum Computing**)
Reading
Music production and listening
Strategical Thinking & Planning