

# Sudarshan Lakshate

Bhosari, Pune, MH

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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 Senior AI Annotation Engineer

Magarpatta, Hadapsar  
Dec 2023 to 28<sup>th</sup> 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**.sssss

## PROJECTS

- 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.
- 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.
- 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/>
- 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
- 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](#)
- 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.	<b>AgenticAI - DataPilot AI</b> – (YData-Profilng, LangChain, LangGraph, OpenAI, FastAPI)	
	<ul style="list-style-type: none"> <li>Performs automated EDA, cleaning, feature engineering, and ML model training via autonomous AI agents.</li> </ul>	Project Status: <a href="#">ClickUp</a>
8.	<b>LLM - DharmaAI — Fine-Tuned LLM for Indian Historic &amp; Cultural Texts (ByT5-small, mT5/Qwen-7B)</b>	
	<ul style="list-style-type: none"> <li>Custom ByT5/mT5/Qwen-based system for OCR correction, Sanskrit QA, and summarization.</li> </ul>	Project Status: <a href="#">ClickUp</a>
9.	<b>Data Science - Customer_360_Analytics</b>	
	<ul style="list-style-type: none"> <li>Built segmentation, RFM, CLV, and cohort analysis pipeline for customer intelligence.</li> </ul>	Project Status: <a href="#">ClickUp</a>
10.	<b>GenAI - HyperCreate AI Studio – (OpenAI TTS, Diffusion Models, LangChain, LangGraph)</b>	
	<ul style="list-style-type: none"> <li>Integrated LLMs, diffusion models, TTS, and multimodal chains for full-stack content generation workflows.</li> </ul>	Project Status: <a href="#">ClickUp</a>
11.	<b>Image Captioning with Deep Neural Networks (2023)</b>	
	<ul style="list-style-type: none"> <li>Developed an image captioning model in Python using CNNs for image processing and LSTMs for generating natural language descriptions.</li> </ul>	

## 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

<b>Dr. D.Y. Patil Polytechnic, Akurdi, Pune</b>	
Diploma In Computer Engineering – 64.00%	2018
<b>Siddhant Collage of Engineering</b>	
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  
 Strategic Thinking & Planning