

# SUVOJIT TAPADAR

rorsuvojit04@gmail.com || +91 906-247-0858 || Bengaluru, India

## Skills

---

### AI / GenAI & Data Skills

- Retrieval Augmented Generation (RAG)
- Agentic AI Workflows
- Multi-Agent Workflow Concepts
- LangChain
- LangGraph
- Vector Databases (ChromaDB)
- LLM Integration (Gemini, Ollama, Azure OpenAI)
- Prompt Engineering & workflow
- Embedding Models & Semantic Search
- NLP & Text Classification
- AI Agents
- AI Pipeline Development
- AI Model Evaluation & Retraining

### Deployment & Architecture

- Containerized backend services using Docker
- Cloud-ready AI application architecture
- FastAPI-based AI inference services
- Scalable REST API and backend system design
- Modular RAG and AI workflow pipelines

### Engineering Skills

- Ruby on Rails
- Python, FastAPI
- ML (Supervised, Unsupervised, Classification)
- Vue.js
- Node.js
- React.js
- REST API
- AWS
- Docker
- Azure
- CI/CD
- REST API
- GraphQL
- MySQL
- PostgreSQL
- MongoDB
- OKTA
- GIT

## Summary

---

Lead Software Engineer with 11+ years of experience building scalable backend platforms, intelligent automation systems, and AI-powered enterprise applications. Hands-on expertise in **Generative AI, RAG pipelines, LLM** integration, **NLP** workflows, vector search, and AI-driven backend architecture using **LangChain, FastAPI, ChromaDB, Gemini, and Azure OpenAI**. Strong experience in production-grade APIs, cloud-ready deployments, and enterprise automation platforms.

## Professional Training & Certification

---

- **Generative AI & Agentic AI Specialty** — Kyndryl (Delivered by Koenig), Feb 2026
- **AI & Machine Learning Specialty** — Kyndryl (Delivered by Koenig), Feb 2026
- **Google Generative AI Certification**, May 2026

## Experience

---

### Kyndryl

#### Lead Software Engineer

06/2021 - Current

#### Tech Stack:

- Python
- RAG
- Agentic AI
- Chroma DB
- Ollama
- Ruby on Rails
- ML (NLP)
- Node.js
- Ember.js
- PostgreSQL
- MongoDB
- REST-APIs
- FastAPI
- IBM Cloud
- Azure Open AI

#### *AI / ML Project: AI Sales Intelligence System (Applied AI Project)*

##### *Role: End-to-End GenAI Development*

- *Designed and developed an enterprise-grade RAG-based AI platform for extracting insights from advisory and sales datasets*
- *Built document ingestion pipelines using PDF loaders, chunking strategies, embedding generation, and semantic indexing*
- *Implemented vector search using ChromaDB for context-aware retrieval and similarity search*
- *Integrated LLMs including Gemini, Ollama, and Azure OpenAI for AI-assisted response generation*
- *Developed FastAPI-based backend services for AI querying and structured response generation*
- *Designed modular AI workflows supporting future agentic AI and multi-agent orchestration*
- *Built scalable AI-ready backend architecture with reusable ingestion and retrieval pipelines*

*Tech Stack: Python, LangChain, ChromaDB, HuggingFace Embeddings, FastAPI, Azure, Gemini, Ollama*

#### *AI / ML Project: KAPS Classifier*

##### *Role: Lead Engineer (Hands-on ML Development)*

- *Designed NLP-based ML pipelines for automated vendor advisory classification*
- *Trained and optimized classification models using Python and structured datasets*
- *Built reusable ML workflows for automated retraining and inference processing*
- *Improved automation efficiency by integrating intelligent classification into advisory systems*
- *Performed model evaluation, tuning, and production integration support.*

#### *Tech Stack:*

*Python, NLP, Machine Learning, Model Training, Data Pipelines, IBM Cloud.*

#### *Project: KAPS (Platform + AI Integration)*

##### *Role: Lead Engineer – Automation & Data Systems*

- *Developed backend automation services supporting AI and ML workflows*
- *Built scalable advisory ingestion pipelines for downstream NLP and classification systems*
- *Managed structured datasets used for AI model training and intelligent automation*
- *Automated vendor synchronization workflows using Node.js and Python*
- *Supported AI-ready backend architecture and data processing pipelines*

**Tech Stack:**

Node.js, Python, PostgreSQL, REST APIs, Automation Pipelines, OKTA, MongoDB, IBM Cloud.

**Project: RCP (India Team)**

**Role:** Senior Full Stack Engineer

**Status:** Completed

- Delivered initial feature development and long-term application lifecycle management
- Fixed critical production issues and improved system stability
- Collaborated with compliance and business stakeholders on roadmap planning
- Managed database operations including backups and performance tuning
- Deployed applications across Azure infrastructure
- Supported containerized deployment pipelines
- Implemented OKTA integration for secure authentication
- Developed automated unit tests using RSpec
- Monitored system performance using Grafana tools

**Tech Stack:**

Ruby on Rails, Ember.js, PostgreSQL, Materialized Views, JavaScript (ES6), Azure cloud, Containers, REST APIs, Grafana, OKTA, RSpec

**Covalense Global**  
**Sr. Software Engineer**  
02/2020 - 05/2021

**Project: Mastt (<https://www.mastt.com/>)**

**Role:** Sr. Software Engineer – Development

- Develop flow diagrams, DFDs, database design, and requirement analysis.
- Understand new feature requirements and develop using a TDD approach.
- R&D with a team for any critical issues, and new features.
- Work on the slowness issue of the application, N+1 query optimization, modify existing code, and reduce complexity.
- Manage and handle a team of five members, coordinate with them, and resolve any critical issues that arise.
- According to the requirements, I used Sidekiq to perform a backend job.
- Developed and designed software functionality for cash flow level operations that deal with large volumes of data.
- Write Rspec test cases for new and existing functionality.
- Deploy code into the Development instance for testing using AWS.
- Work with the MongoDB database and modify or add tables according to requirements.

**Intellosol Software India Pvt. Ltd**  
**Software Engineer**  
06/2016 - 02/2020

- Communicated changes through application followed documentation procedures for each fix.
- Implemented robust security protocols, safeguarding sensitive data against potential cyber threats.
- Conducted rigorous testing and debugging of software systems, significantly reducing the incidence of critical bugs.

- Partnered with engineering staff on identifying and resolving interface issues.
- Streamlined deployment processes, resulting in a 30% reduction in release times for new software updates.
- Wrote maintenance procedures for software to help users and administrators get most from designs.

**Circar Consulting Service Pvt. Ltd**  
**Software Engineer**

09/2014 - 06/2016

-

- Involved in requirement analysis from scratch, client interaction, documentation, and manual testing.
- Login Form Create to Login in site and add database and field validation.
- Write code in Ruby to Implement Major functionality like search data, fetch data from database, save user form, complex math calculation per client criteria.
- Add ZOHO API Integration with site and manage data per requirement.
- CSS, Bootstrap Design Integration in project.
- Design Database per the client criteria.

## Education

---

**Master's in computer application (2014)**

MCKV Institute of Engineering | Kolkata, IN  
West Bengal University of Technology

**Bachelor of Computer Science in Honors (2011)**

Vivekananda Maha Vidyalaya | Kolkata, IN  
University of Burdwan

## Career goals

---

- To build scalable AI-powered applications and intelligent automation systems by combining expertise in backend engineering, Generative AI, NLP, and enterprise-grade AI workflows.

- - -