

JEEVAN BIKASH SAHOO

9861344906 | sahoojeevanbikash@gmail.com | LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

Results-driven Software Engineer and AI Developer with expertise in designing and deploying scalable AI solutions using Agentic Systems, RAG, NLP and LLM integration. Thrives in high-impact settings, focused on delivering real-world outcomes. Seeking a challenging role to drive product innovation and develop technology that transforms lives.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript

AI & Machine Learning: Machine Learning, Deep Learning, PyTorch, NumPy, Pandas

Generative AI & LLMs: LLM Integration, Retrieval-Augmented Generation (RAG), Agentic RAG, LangChain, LangGraph

Backend Development & Frameworks: Flask, FastAPI, Streamlit, RESTful APIs

Web Technologies: HTML, CSS, JavaScript

Databases: Pinecone (Vector Database), Supabase (PostgreSQL), MySQL, SQLite

DevOps & Version Control: Docker, Git, GitHub

PROFESSIONAL EXPERIENCE

Capsitech

Jodhpur, India

July 2025 – November 2025

Junior Game Developer

September 2025 – November 2025

- **Engineered 20+ dynamic puzzle levels** for the title *ThinkFinity* using Unity and C#; architected pipe connection validation, configurable endpoints, and water-flow logic to ensure seamless game progression.
- **Designed retention mechanics** by implementing star-based achievement rewards and a sequential level-unlocking system to drive player engagement and progression tracking.
- **Integrated Firebase Authentication** for the title *TactIQXO*, configuring Google and Apple secure cross-platform sign-in credentials to streamline user onboarding.
- **Leveraged Unity PlayerPrefs** for offline local data persistence, optimizing device-side storage and reducing cloud synchronization dependencies.

Assistant System Engineer L1

July 2025 – September 2025

- **Improved payroll data accuracy by 25%** within the Total Time Pay system by applying target SQL debugging and database analysis to eliminate root-cause data integrity anomalies.
- **Architected a role-based Task Management System** using a C# backend, establishing secure APIs and CRUD operations across 3 distinct user tiers (Admin, Team Lead, Employee).
- **Enhanced team workflow visibility** by developing collaboration features, including automated employee to-do lists, audit logs, activity tracking, and centralized dashboards.
- Collaborated with cross-functional team members to implement project requirements, resolve software issues, and deliver project modules within an **Agile development workflow**.

PROJECTS

FixPilot | Agentic AI-Powered IT Support Assistant

Demo | GitHub

Python, FastAPI, LangGraph, Pinecone, Groq, Tavily, SQLite, Docker

- **Architected an Agentic RAG-based IT support copilot** that dynamically routes employee questions, retrieves internal documentation, grades context evidence, and executes a fallback to Tavily web search when internal data is insufficient.
- **Engineered** a robust document ingestion pipeline for PDF, TXT, Markdown, and DOCX formats using recursive text chunking, OpenAI embeddings and Pinecone vector indexing; validated extraction reliability by achieving a **100% pass rate (6/6)** on a six-file test set.
- **Deployed** production-ready **FastAPI REST endpoints** for conversational chat streams and document uploads secured with an admin key, delivering structured outputs complete with text citations and complete agent decision traces.
- **Benchmarked** performance using an 11-question evaluation framework, proving that the Agentic RAG workflow achieved **90.9% (10/11) expected-answer coverage**, significantly outperforming the basic

RAG baseline score of **63.6% (7/11)**.

Gym Mentor AI | *Real-Time AI Fitness Coach*

Demo | GitHub

Python, Streamlit, MediaPipe, OpenCV, Groq API, Supabase, WebRTC

- **Architected a real-time AI fitness application** utilizing **Google MediaPipe 3D Pose Estimation** and **OpenCV** to track a 33-landmark spatial mesh over a low-latency webcam feed at **30+ FPS**.
- **Formulated vector trigonometry algorithms** for sub-degree internal joint angle calculations and built a robust **Dynamic State Machine** to track exercise repetitions (squats, pushups, curls) while eliminating false positives from camera jitter.
- **Integrated Groq API (Llama 3)** with a zero-latency conversational coaching pipeline, utilizing the **Web Speech API** for multi-threaded, non-blocking **Text-to-Speech (TTS)** voice feedback.
- Implemented user profile persistence and historical workout metrics (MET-based calorie tracking, form quality scores) by integrating a **Supabase PostgreSQL** backend database.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

CGPA: 7.8/10

Gandhi Engineering College, Bhubaneswar, Odisha

September 2021 – May 2025

CERTIFICATIONS & ACHIEVEMENTS

Certifications

- **Oracle:** Agentic AI Certified Foundations Associate
- **Google Cloud:** Engineer AI Agents with ADK; Deploy Multi-Agent Systems with Gemini Enterprise Agent Platform
- **Amazon Web Services:** AWS Cloud Practitioner Essentials
- **Postman:** Postman API Fundamentals Student Expert

Achievements

- Solved **200+ coding problems** on LeetCode focusing on core algorithmic concepts
- **3rd Prize** at the SQL Competition (Break the Query, 2024)
- Selected as a **Microsoft Learn Student Ambassador** (2023–2024)