Khushbu Kushvaha

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Chembur, Mumbai, Maharashtra

AI Engineer specializing in **FastAPI**, **Agentic AI frameworks**, and **event-driven architectures** for healthcare automation. Experienced in integrating **Vertex AI (LLMs)** and building scalable backend systems using **PostgreSQL**, **Redis**, and Google Pub/Sub. Strong foundation in **Generative AI**, **RAG**, and **LLM orchestration**, with hands-on experience developing **intelligent automation solutions** in production environments.

KEY COMPETENCIES

- **Programing Languages** : Python, Sql, JavaScript
- **Databases** : PostgreSQL, SQLite, Vector Databases, Redis
- **Frameworks & Libraries** : FastAPI, Django, Flask, React.js, Streamlit, LangChain, LangGraph, Semantic Kernel, FAISS, Google ADK, n8n
- **AI/ML: Machine Learning,** Machine Learning, Generative AI, Prompt Engineering, RAG, Agentic AI Frameworks, LLM Orchestration, Time Series Forecasting, Data Analysis
- **Tools & Platforms**: Git, GitHub Copilot, Google Charts, Azure, AWS, GCP
- **Soft Skills**: Project Leadership, Problem-solving, Cross-functional Collaboration, Technical Learning Agility, System Design Thinking

PROFESSIONAL EXPERIENCE

AI Engineer | IKS Health   SEP 2025 - Present

- Designed and developed scalable **FastAPI-based REST APIs** for authentication, RBAC, and secure healthcare workflows.
- Contributed to a HIPAA-compliant, **containerized Agentic AI framework** for automated prior authorization across multiple payer portals.
- Engineered event-driven pipelines using Google Pub/Sub for asynchronous batch patient processing.
- Integrated **Vertex AI (LLMs)** to enable **intelligent browser automation and workflow reasoning**.
- Implemented Human-in-the-Loop (HITL) and MFA (OTP) workflows using n8n, PostgreSQL, and Redis within a distributed multi-agent system.
- Contributed to **scalable infrastructure handling multi-portal automation** with secure credential management.

Analyst (Ai/Ml Developer) | Capgemini   2024 - SEP 2025

- **Monitored and refined a time series model** in hana_ml through Mar 2025 to forecast electricity usage, enabling cost-saving decisions and CO_2 reduction via optimized resource planning.
- **Built a prototype using Agentic AI** to streamline SSP−Hub workflows for rare medication access; developed multi-agent systems with Semantic Kernel, React, and Flask to monitor eligibility and financial aid, gaining hands-on experience with Azure and GitHub Copilot.

Associate (Gen Ai Developer) | Capgemini   2023 - 2024

- **Forecasted hourly electricity usage** using hana_ml, enabling cost-saving decisions and CO_2 reduction by optimizing resource deployment across building locations.
- **Prototyped a Gen AI invoice system** on AWS to process multilingual invoices and detect fraud; demoed to clients to showcase automation and financial accuracy.
- **Built a RAG-based chatbot** for SAP HANA developers to support data migration; internal success led to client interest and cross-account adoption during beta testing.
- **Developed a natural language−to−SQL tool** that automated query generation from metadata and visualized results using React and Google Charts, streamlining data analysis for non-technical users.

Associate (Python Developer) | Capgemini **July 2022 - 2023**

- **Built a machine learning model** to predict patient no-shows, improving scheduling efficiency; developed Streamlit dashboards to rank bench employees, enhancing visibility and resource utilization.
- **Led a hackathon team** to create a one-click data cleaning app; advanced to round two and earned Gen AI Developer role in a project.
- **Explored Generative AI** and LLMs during a shadowing period; gained hands-on experience with RAG pipelines, vector databases, and embedding workflows to support automation and business insights.

EDUCATION

B.Sc. Computer Science – VES College of Arts, Science and Commerce, Mumbai (2022) – 83.03%

HSC – National Sarvodaya Junior College (2019) – 62.42%

SSC – Shree Sanatan Dharam Vidyalay (2017) – 80.40%