Nimish Tembhurne

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Professional Summary

Data Scientist with a proven track record of designing scalable AI/ML architectures and deploying business-driven conversational platforms. Skilled in **LLM integration**, **Kubernetes deployments**, **end-to-end ML pipelines**, and **MLOps automation**. Successfully developed and deployed **Conversational AI systems**, **financial document processing pipelines**, and **enterprise search platforms** using **Vertex AI**, **BigQuery**, and related technologies. Experienced in building advanced **RAG applications** and **chatbots** with tools such as **ChromaDB**, **Gemini**, and **Streamlit**. Proficient in implementing RAG techniques including **multi-query retrieval**, **RAG fusion**, **query decomposition**, **stepback prompting**, and **semantic/logical routing**. Adept at optimizing workflows, automating support systems, and integrating data from diverse enterprise sources.

Education

Indian Institute Of Technology, Kanpur	**Aug. 2017 – June 2021**
B.Tech in Chemical Engineering	*Kanpur, India*

Technical Skills

Languages: Python, SQL, C, C++, Bash

Frameworks: Django, FastAPI, LangChain, Rasa, Dialogflow, Streamlit

ML/DL: scikit-learn, TensorFlow, PyTorch, XGBoost, spaCy

LLM & RAG: Prompt Engineering, RAG, LLM Orchestration, Vertex AI, Gemini, ChromaDB, FAISS, Pinecone

Cloud Platforms: Google Cloud, AWS S3

MLOps/DevOps: Docker, Kubernetes, Helm, Jenkins, GitHub Actions, MLflow, DagsHub

Data Engineering: ETL pipelines, Kafka, MongoDB, BigQuery, MySQL, DataLake design

APIs: REST APIs, Microsoft Graph API, Freshdesk API

Visualization Tools: Tableau, Power BI

Productivity Tools: Excel, VBA

Experience

Moglix India Pvt. Ltd.	**Noida, Uttar Pradesh**
Data Scientist / Data Analyst	*Nov. 2021 – Jan. 2025*

- Led deployment of multiple **conversational AI assistants** including Moglix Support Assistant (INR **1Cr+** monthly revenue) and Vedanta Assistant.
- Built **Moglix Search Engine** enabling **natural language queries** across **BigQuery Data Lake**.
- Automated **financial document processing pipeline**, reducing manual effort by **85%**.
- Developed **Django-based chatbot integration systems** improving engagement by **74%**.
- Containerized Rasa-based platforms with **Kubernetes & Helm** achieving **99.9% uptime**.

Projects

Conversational AI Systems | Rasa, Docker, Kubernetes, Vertex AI   **2021–2025**
- Developed **Moglix Support Assistant**, **Vedanta Assistant**, and **Executive Summary Assistant** for order management, financial data access, and executive summaries respectively.
- Integrated **Freshdesk API**, CRM databases, and WhatsApp APIs ensuring seamless multi-channel user experiences.
- Achieved **1Cr+ monthly sales impact** and **reduced support manpower by 80%** through automation.

Moglix Search Engine | Django, Vertex AI, BigQuery   **2023–2025**
- Built **enterprise search platform** allowing users to retrieve supplier, sourcer, order, etc. data and their visualizations through **natural language queries** enabled for **T-1 reporting**.
- Designed prompt templates using state of the art **prompt engineering techniques** for entity extraction using **Gemini**.
- Optimized data retrieval by indexing and partitioning **BigQuery tables** on critical IDs for **faster lookups**.

LLM & RAG Applications | Vertex AI, Gemini, Streamlit, ChromaDB   **2023–2025**
- Built an **HR chatbot** using Vertex AI Agent Builder + ChromaDB to answer HR document queries in real-time.
- Developed a **Streamlit-based RAG application** for file upload, chunking, vectorization, and semantic search over PDFs/CSVs.
- Implemented advanced RAG techniques: **multi-query retrieval**, **RAG fusion**, **query decomposition**, **stepback prompting**, and **semantic/logical routing**.
- Used **Vertex Vector Storage**, integrated with Gemini LLMs for context-aware query resolution.
- Built modular pipelines to manage RAG workflows efficiently, including document reranking and context filtering.

Phishing URL Detection Pipeline (Personal Project) | FastAPI, MLflow, AWS **2024**
  – Designed **end-to-end ML system** covering **feature engineering, model training, evaluation, deployment, monitoring**.
  – Built scalable **FastAPI-based inference service** dockerized for deployment.
  – Tracked experiments and managed models via **MLflow** with cloud storage on **AWS S3**.

Financial Document Processing Module | Vertex AI, Microsoft Graph API, Django **2024**
  – Automated **asynchronous extraction of financial fields** from email body/attachments using **specialized LLM prompts**.
  – Designed **dynamic field mapping system** with semantic matching for document variations.
  – Enabled downstream integration with financial recommendation platforms.

Enterprise Search Dashboards | Tableau, BigQuery, KPI Design **2022–2023**
  – Designed interactive **Tableau dashboards** for the Moglix Search Engine to visualize supplier, order, and sourcing data.
  – Built drill-down views with **calculated fields**, parameters, and filters to enable category-wise and time-based trend analysis.
  – Displayed KPIs like turnaround time, top vendors, and team-wise sourcing performance used by business and category heads.
  – Utilized Tableau's **LOD functions** and dashboard formatting features to support quick decision-making from BigQuery data.
  – *Personal:* Built a Superstore dashboard showing year-over-year sales trends and dynamic Top/Bottom K products by segment.

Certifications & Courses

- **Neural Networks and Deep Learning** (DeepLearning.AI / Coursera, 2023) (View Certificate)

- **Ollama Course – Build AI Apps Locally** (Self-Paced Learning, 2025) (View Course)

- **Learn RAG From Scratch – Python AI Tutorial** (Self-Paced Learning, 2024) (View Course)

- **PyTorch for Deep Learning & Machine Learning – Full Course** (Self-Paced Learning, 2024) (View Course)