Sarthak Pande

Pune,India | sarthakpande1008@gmail.com | +91 9094805805

linkedin.com/in/sarthakpande108 | github.com/sarthakpande108

Profile Summary

AI/ML Engineer building **end-to-end Generative AI solutions** and **autonomous Agentic AI workflows** using **LLMs**, **RAG**, **NLP**, and **computer vision**. Skilled in **predictive analytics**, **AI-powered decision systems**, **feature engineering**, **model optimization**, and delivering **data-driven insights** with **Tableau** and **Power BI**. Proficient in **Python**, **TensorFlow**, **LangChain**, **SQL**, **data preprocessing**, and deploying models on **AWS** and **Azure**.

Education

BE in AI & Data Science	Savitribai Phule Pune University	*2021–2025* **(8.87/10)**
12th	Maharashtra State Board	*2019–2021* **(86.83%)**
10th	Maharashtra State Board	*2019* **(84.60%)**

Technical Skills

Languages: Python, **SQL**

GenAI & LLM: Large Language Models **(LLMs)**, Retrieval-Augmented Generation **(RAG)**, Prompt Engineering, **Agentic AI**, **LangChain**, LlamaIndex, Ollama, Vector Databases

Machine Learning & NLP: Deep Learning, Pandas, Natural Language Processing **(NLP)**, **Transformers**, **TensorFlow**,scikit-learn, **Hugging Face**,

Cloud Platforms: AWS SageMaker, **Google Vertex AI**, **Microsoft Azure**, **Azure Cognitive Services**

Data Engineering: Extract, Transform, Load **(ETL)**, Data Warehousing, **Snowflake**

Visualization & BI: Power BI, **Tableau**

Experience

Programmer Analyst Trainee, Cognizant Technology Solutions   Feb 2025 – Present

- Working on **data integration and management** for one of the **largest US airlines**, ensuring seamless migration and transformation of large-scale datasets.
- Utilized tools like **Tableau** and **Alteryx** for data preparation, visualization, and automation.
- Executed **data migration** projects from **Amazon Redshift** and **Teradata** platforms, improving data accessibility and analytics efficiency.

Generative AI Intern, AlgoArtha Pvt. Ltd., Pune   Sep 2024 – Dec 2024

- Contributed to the development of a **RAG (Retrieval-Augmented Generation)** system using **LangChain**, which improved the accuracy of a customer service chatbot by **40%**.
- Fine-tuned a pre-trained **Large Language Model (LLM)** on a proprietary dataset of **10,000 documents**, resulting in a **20% reduction** in factual errors in generated responses.
- Implemented and evaluated various **machine learning algorithms**, including transformer-based models, for tasks such as text summarization and sentiment analysis, achieving a **F1-score of 0.85**

Data Analyst Intern, Productry   Dec 2023 – May 2024

- Developed and maintained **SQL** queries to extract, transform, and load (ETL) large datasets, improving data processing efficiency by **30%**.
- Conducted in-depth **data analysis** on user behavior and product performance, creating over **10 dashboards** and reports using **Tableau** and **Power BI** that guided strategic product decisions
- Identified key performance indicators (**KPIs**) and presented findings to stakeholders, leading to a **15% increase** in user engagement on a new product feature.

Projects

GenAI-powered Financial Advisor

- Fine-tuned **LLaMA 2** using QLoRA with a user dataset to generate customized plans based on goals, profile, and risk tolerance.
- Designed and deployed a **modular backend architecture** in **Flask** and **Node.js**, maintaining a clean file structure for scalability and seamless data flow between AI models and the SQL database.
- Developed a responsive **React.js** frontend integrated with **REST APIs**, enabling real-time recommendations for **mutual funds, stocks, and loan options**.
- Implemented **RAG-based chatbot** with visualized investment projections, improving decision accuracy by **30%**.

Agentic AI LinkedIn Automation for Tech Content

- Developed an **Agentic AI** system using **LangChain** and **Tribo API** to automate the end-to-end content creation and publishing process for LinkedIn, increasing engagement and network reach.
- Engineered a **multi-step pipeline** that utilizes a custom **LLM** to curate relevant tech news from over **500 daily articles**, followed by crafting and publishing high-quality posts, resulting in a **90%** content relevance score.
- **Automated** the approval and publishing workflow via **Gmail API** and **LinkedIn**, which led to a **200% increase** in daily engagement and a **50% reduction** in time spent on manual content creation.

KTMantra | AI Knowledge Assistant

*D*eveloped a fine-tuned RAG system to automate project knowledge transfer and enhance team onboarding

- Engineered a **RAG** system using the **Gemini API** to query and retrieve information from company internal documents, resulting in an **85%** improvement in information retrieval accuracy
- Implemented a custom conversational workflow that **automates** the project knowledge transfer process, **reducing** the average KT session time by an estimated **70%** and streamlining onboarding for new team members
- Designed and integrated a **user-friendly** conversational interface with advanced features for session summarization and automated quiz generation, which helped **reduce** manual information review time by **60%** and enhanced knowledge transfer.

Achievements

- **Published Author** – Published a review paper on *GenAI-based Personalized Financial Planning*, focusing on LLMs, RAG frameworks, and AI-driven investment strategies.

- **Stock Sub-Broker at Choice Broking** – Onboarded and advised retail investors on equity trading, portfolio management, and mutual fund investments

- **Co-founder, AlgoArtha (Fintech Startup)** – Built algorithmic trading strategies for the Indian stock market using Python, broker APIs, and backtesting frameworks.

- **Leadership Roles in Campus Clubs** – Served as **Treasurer** of Tarang Cultural Club (managed event budgeting and finance) and **Marketing Executive** in DSAII Club (led sponsor outreach and branding initiatives).