

Bibliography

Books

1. Russell, S., & Norvig, P. (2020). *Artificial Intelligence: A Modern Approach*. 4th Edition. Pearson. <https://www.amazon.com/Artificial-Intelligence-A-Modern-Approach/dp/0134610997>
2. Caelen, O., & Blete, M.-A. (2023). *Developing Apps with GPT-4 and ChatGPT: Build Intelligent Chatbots, Content Generators, and More*. 1st Edition. <https://www.amazon.com/Developing-Apps-GPT-4-ChatGPT-Intelligent/dp/1098152484>
3. Auffarth, B. (2023). *Generative AI with LangChain: Build large language model (LLM) apps with Python, ChatGPT and other LLMs*. <https://www.amazon.com/Generative-AI-LangChain-language-ChatGPT/dp/1835083463>
4. Lim, G. (2023). *LangChain Crash Course: Build OpenAI LLM powered Apps: Fast track to building OpenAI LLM powered Apps using Python*. Paperback. <https://www.amazon.com/LangChain-Crash-Course-OpenAI-powered/dp/B0CHL1FMC4>
5. Ozdemir, S. (2023). *Quick Start Guide to Large Language Models: Strategies and Best Practices for Using ChatGPT and Other LLMs*. 1st Edition. Addison-Wesley Data & Analytics Series. <https://www.amazon.com/Quick-Start-Guide-Large-Language/dp/0138199191>
6. Bouchard, L.-F., & Peters, L. (2024). *Building LLMs for Production: Enhancing LLM Abilities and Reliability with Prompting, Fine-Tuning, and RAG*. <https://www.amazon.com/Building-LLMs-Production-Reliability-Fine-Tuning/dp/B0D4FFPFW8>

Academic Papers

1. Huang, Q., Wake, N., Sarkar, B., Durante, Z., Gong, R., Taori, R., Noda, Y., Terzopoulos, D., Kuno, N., Famoti, A., Llorens, A., Langford, J., Vo, H., Fei-Fei, L., Ikeuchi, K., & Gao, J. (2024b). *Position Paper: Agent AI towards a Holistic Intelligence*. arXiv (Cornell University). <https://doi.org/10.48550/arxiv.2403.00833>
2. Han, S., Zhang, Q., Yao, Y., Jin, W., Xu, Z., & He, C. (2024b). *LLM Multi-Agent Systems: Challenges and open Problems*. arXiv (Cornell University). <https://doi.org/10.48550/arxiv.2402.03578>
3. Topsakal, O., & Akinci, T. C. (2023b). *Creating large language model applications Utilizing LangChain: A primer on developing LLM apps fast*. International Conference on Applied Engineering and Natural Sciences, 1(1), 1050–1056. <https://doi.org/10.59287/icaens.1127>
4. Jeong, C. (2024c). *A study on the implementation method of an Agent-Based Advanced RAG system using Graph*. arXiv.org. <https://doi.org/10.15813/kmr.2024.25.3.005>
5. Easin, A. M., Sourav, S., & Tamás, O. (2024). *An intelligent LLM-powered personalized assistant for digital banking using LangGraph and chain of thoughts*. 2024 IEEE 22nd Jubilee International Symposium on Intelligent Systems and Informatics (SISY). <https://doi.org/10.1109/SISY62279.2024.10737601>
6. Wang, J., & Duan, Z. (2024a). *Intelligent Spark Agents: a modular LangGraph framework for scalable, visualized, and enhanced big data machine learning workflows*. arXiv (Cornell University).

<https://doi.org/10.48550/arxiv.2412.01490>

Articles

1.

Technical Guides

1. Langchain. (2024). *Definitive Guide to Testing LLM Applications*. AI Industry Reports. Available in the reports folder of the AI Agent Lab.
2. LangGraph. (2025). *Multi-agent concepts in LangGraph*. LangChain AI. https://langchain-ai.github.io/langgraph/concepts/multi_agent/
3. LangGraph. (2025). *Agent handoffs: How-tos for LangGraph*. LangChain AI. <https://langchain-ai.github.io/langgraph/how-tos/agent-handoffs/s>
4. Langchain (2025). *Definitive Guide to Testing LLM Applications*. AI Industry Reports. Available in the reports folder of the AI Agent Lab.
5. OpenAI (2025). *OpenAI Python*. <https://github.com/openai/openai-python>

Websites

1. LangChain. (2025). *LangChain Documentation*. <https://python.langchain.com/docs/>
2. LangChain. (2025). *LangChain Community: Join the LangChain Community*. <https://langchain.com/join-community>
3. OpenAI API (2025). *Open AI API Documentation*. <https://platform.openai.com/docs/overview>
4. Docker. (2025). *Using Docker Compose for Multi-Container Applications*. <https://docs.docker.com/compose/>
5. QuestDB. (2025). *QuestDB Documentation*. <https://questdb.io/docs>
6. QuestDB. (2025). *QuestDB Tutorials*. <https://questdb.io/blog/tags/tutorial>
7. Code-Server. (2025). *Code-Server: Run VS Code in the Browser*. <https://coder.com/docs/code-server/latest>
8. Grafana. (2025). *Grafana Documentation*. <https://grafana.com/docs/grafana/latest/>
9. Streamlit. (2025). *Streamlit Documentation: Create Interactive Web Apps with Python*. <https://streamlit.io/generative-ai/>

GitHub Repositories for AI Agent Lab

1. AI Agent Lab - LangChain Streamlit Agents. (2024). Repository for LangChain agents implemented as Streamlit apps. [Streamlit-agent](#)
2. AI Agent Lab - Chatbot Implementations (2024). Repository for Chatbot Implementations with Langchain + Streamlit. [Streamlit-agent](#)

Potential Sources for the Bibliography

Based on the project description, you likely need sources related to:

- **AI Agent Frameworks:** LangChain, agent-based architectures
- **Distributed AI Systems:** Tools, methodologies for scaling AI
- **Edge Computing for IoT:** Reference articles on this topic
- **Fault Tolerance and Performance Monitoring:** Papers or reports on building resilient AI systems
- **Technologies in the Docker Stack:** QuestDB, Grafana, Nginx, etc.

Keywords to Search:

- Distributed Artificial Intelligence (DAI)
- Multi-Agent Systems (MAS)
- Agent-Based Modeling (ABM)
- AI Infrastructure
- AI Agents
- Distributed AI Systems