Master MCP: The Best Free Learning Resource

Best Free Resources to Learn & Master MCP

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JUN 04, 2025 • PAID

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Model Context Protocol (MCP) is becoming more and more one of the most impor standards in context-aware AI production. In this article, we recommend resource break down what MCP is, why it matters, and how you can start working with it, whether you're new to it or want to learn more about it.

From novice-friendly tutorials to tool-focused demo projects, community-created courses, and practice guides, this article collects the best of the best free tools that help you become an MCP master and create AI applications seamlessly integrated with external data, tools, and services.
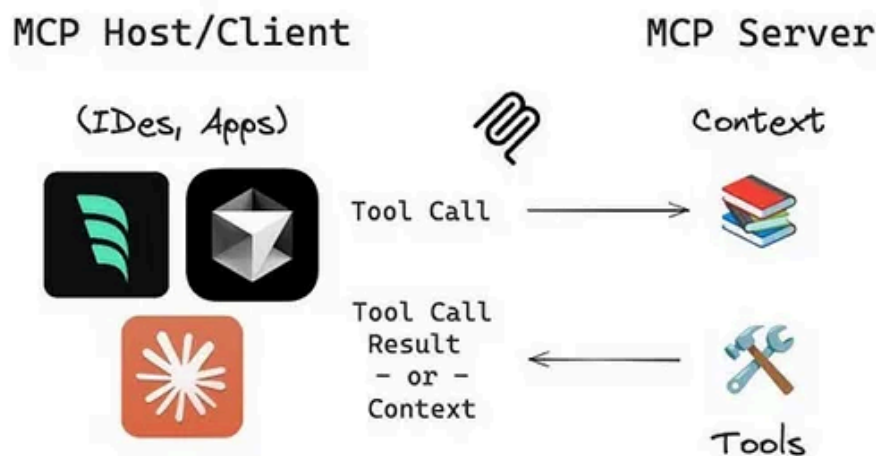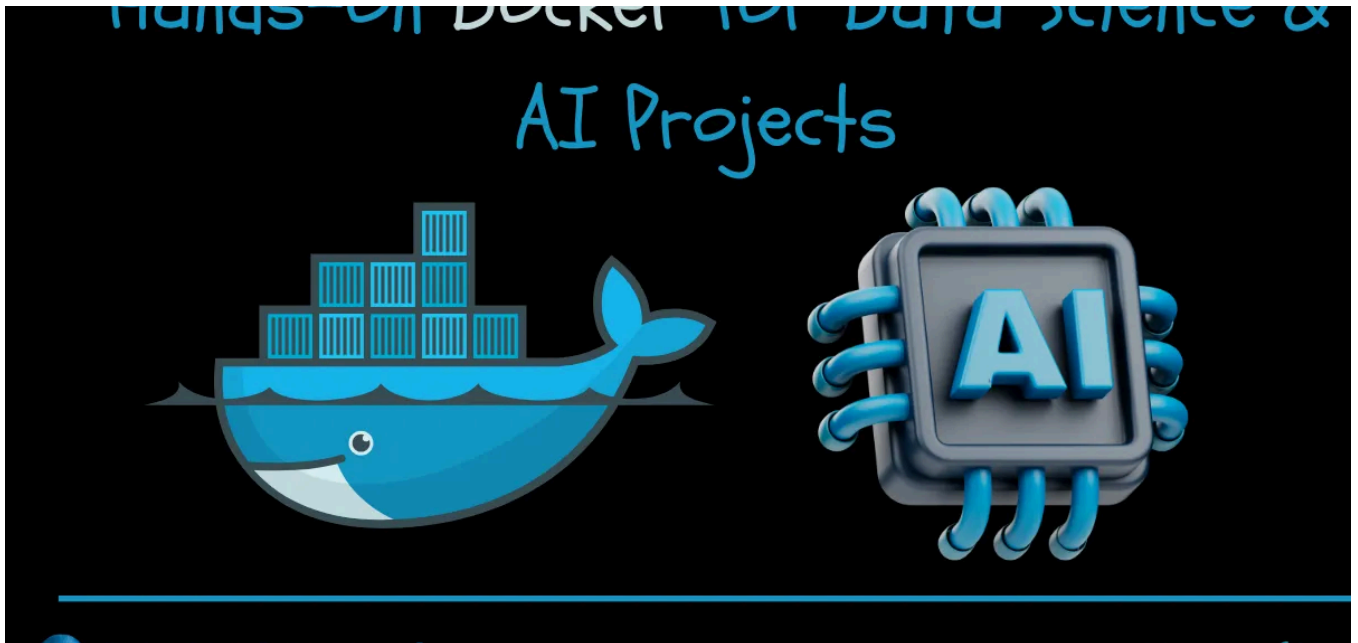
Table of Contents:

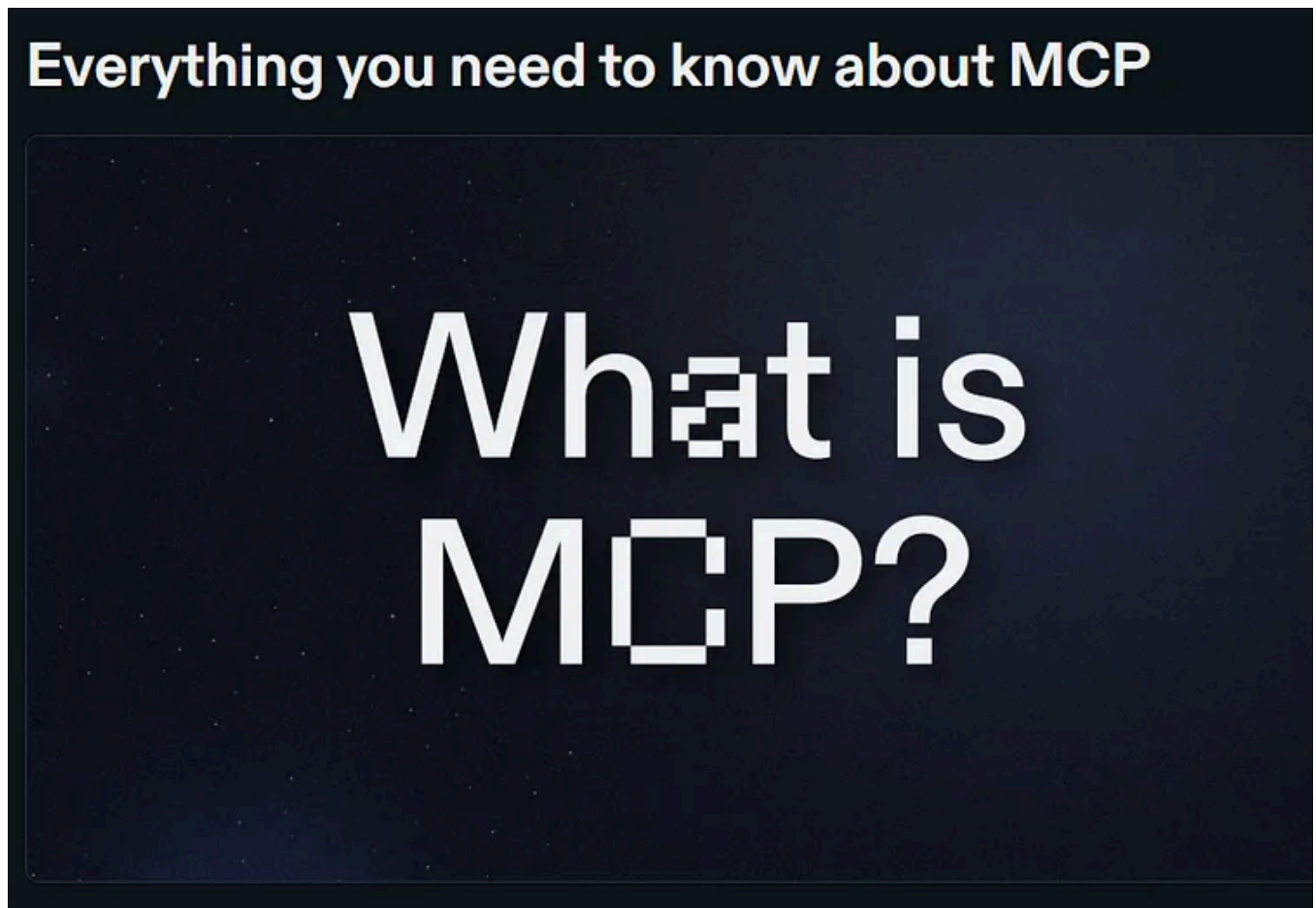# My New E-book: Hands-on Docker for Data Science & AI Projects

YOUSSEF HOSNI · 31 MAY

I am happy to announce that I have published a new book: Hands-on Docker for Data Science & AI Projects. Are you a data scientist, AI practitioner, or machine learning engineer grappling with environment inconsistencies, reproducibility nightmares, or the infamous "it works on my machine" syndrome?

Read full story →

1. Everything you need to know about MCP

The first learning resource is a beginner-friendly introduction to MCP by Replit. I explains how MCP works in simple, accessible language, making it easy to unders without requiring deep technical knowledge of large language models. It's a great starting point for quickly grasping the key concepts and components of MCP.

2. Model Context Protocol (MCP): A Guide With Demo Project

Model Context Protocol (MCP): A Guide With Demo Project

Learn how to build an MCP server using Anthropic's Model Context Protocol to connect Claude with GitHub and Notion.

Mar 17, 2025 · 12 min read

The **Model Context Protocol (MCP)** is an open standard that enables large language models to interact dynamically with external tools, databases, and APIs through a standardized interface.

In this blog, I'll guide you through building an MCP-powered PR review server that integrates with Claude Desktop. This server will:

- Fetch PR details and changed files from GitHub
- Analyze code changes using the Claude Desktop application
- Generate PR review summaries and suggestions
- Save reviews to Notion

We will use the Model Context Protocol (MCP) to standardize communication between the server and Claude Desktop, making it modular and scalable.

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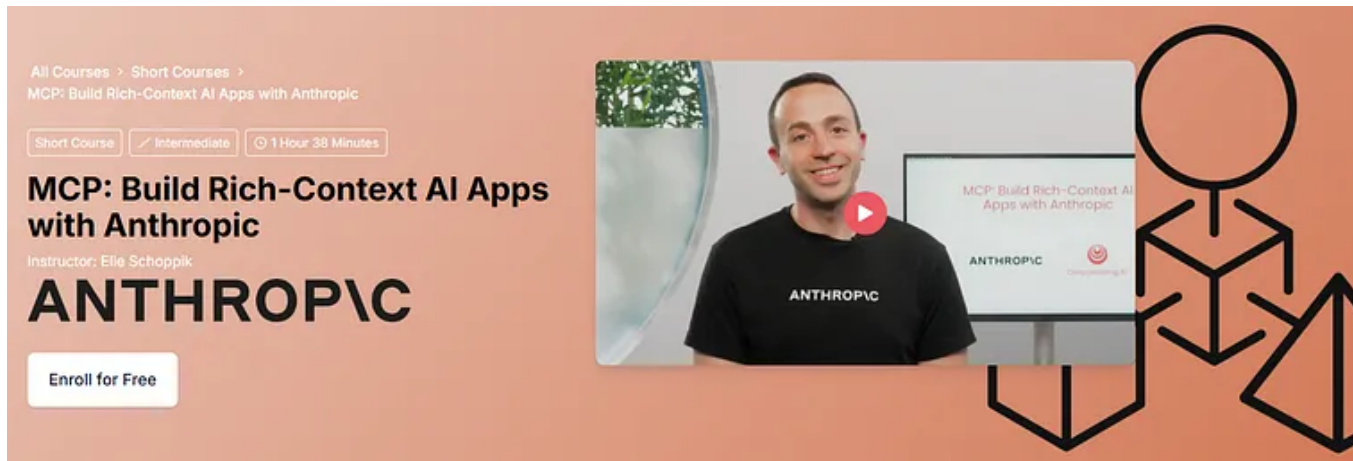# [3. Model Context Protocol (MCP) Hugging Face Course](#)

This free course will take you on a journey, from beginner to informed, in understanding, using, and building applications with MCP. In this course, you will

- 📖 Study Model Context Protocol in theory, design, and practice.
- 🧑‍💼 Learn to use established MCP SDKs and frameworks.
- 💾 Share your projects and explore applications created by the community.
- 🏆 Participate in challenges where you will evaluate your MCP implementation against those of other students.
- 🎓 Earn a certificate of completion by completing assignments.

And more!

At the end of this course, you'll understand how MCP works and how to build your own AI applications that leverage external data and tools using the latest MCP standards.

4. MCP: Build Rich-Context AI Apps with Anthropic

The **MCP: Build Rich-Context AI Apps with Anthropic,** a short course created in partnership with Anthropic and taught by Elie Schoppik. In this hands-on course, you'll learn the core concepts of MCP and how to implement it in your AI Applica

You'll make a chatbot MCP-compatible, build and deploy an MCP server, and con the chatbot to your MCP server and other open-source servers.

Here's what you'll do:

- Understand why MCP makes AI development less fragmented and how it standardizes connections between AI applications and external data sources.

- Learn the core components of the client-server architecture of MCP and the underlying communication mechanism.

- Build a chatbot with custom tools for searching academic papers, and transfor into an MCP-compatible application.

- Build a local MCP server that exposes tools, resources, and prompt templates using FastMCP, and test it using MCP Inspector.

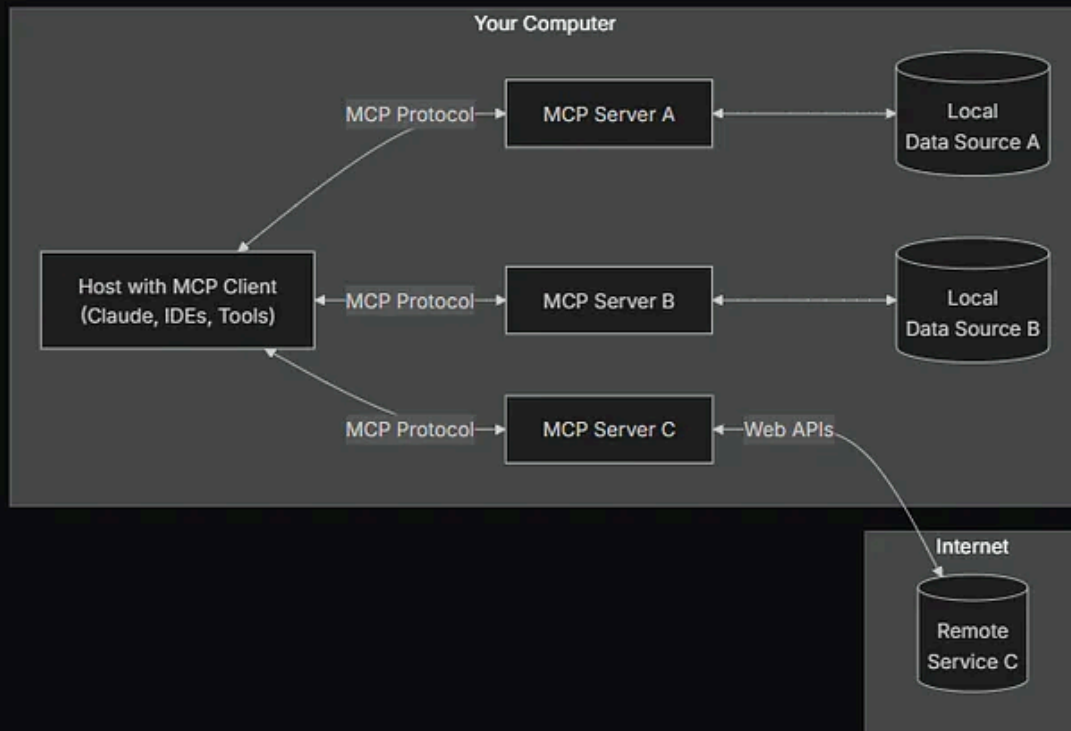- Create an MCP client inside your chatbot to dynamically connect to your serv

- Connect your chatbot to reference servers built by Anthropic's MCP team suc filesystem, which implements filesystem operations, and fetch, which extracts contents from the web as markdown.

- Configure Claude Desktop to connect to your server and others, and explore h it abstracts away the low-level logic of MCP clients.

- Deploy your MCP server remotely and test it with the Inspector or other MCF compatible applications.

- Learn about the roadmap for future MCP development, such as multi-agent architecture, MCP registry API, server discovery, authorization, and authentication.

By the end of the course, you'll be able to build rich-context AI applications that c connect to a growing ecosystem of MCP servers, with minimal integration work.

5. Official MCP Documents

The **official MCP** docs are a good resource to learn the fundamentals, a tutorial to create your first MCP server, debugging, and inspection instructions.

6. Awesome MCP Servers: A curated list of awesome Model Context Protocol (MCP) servers
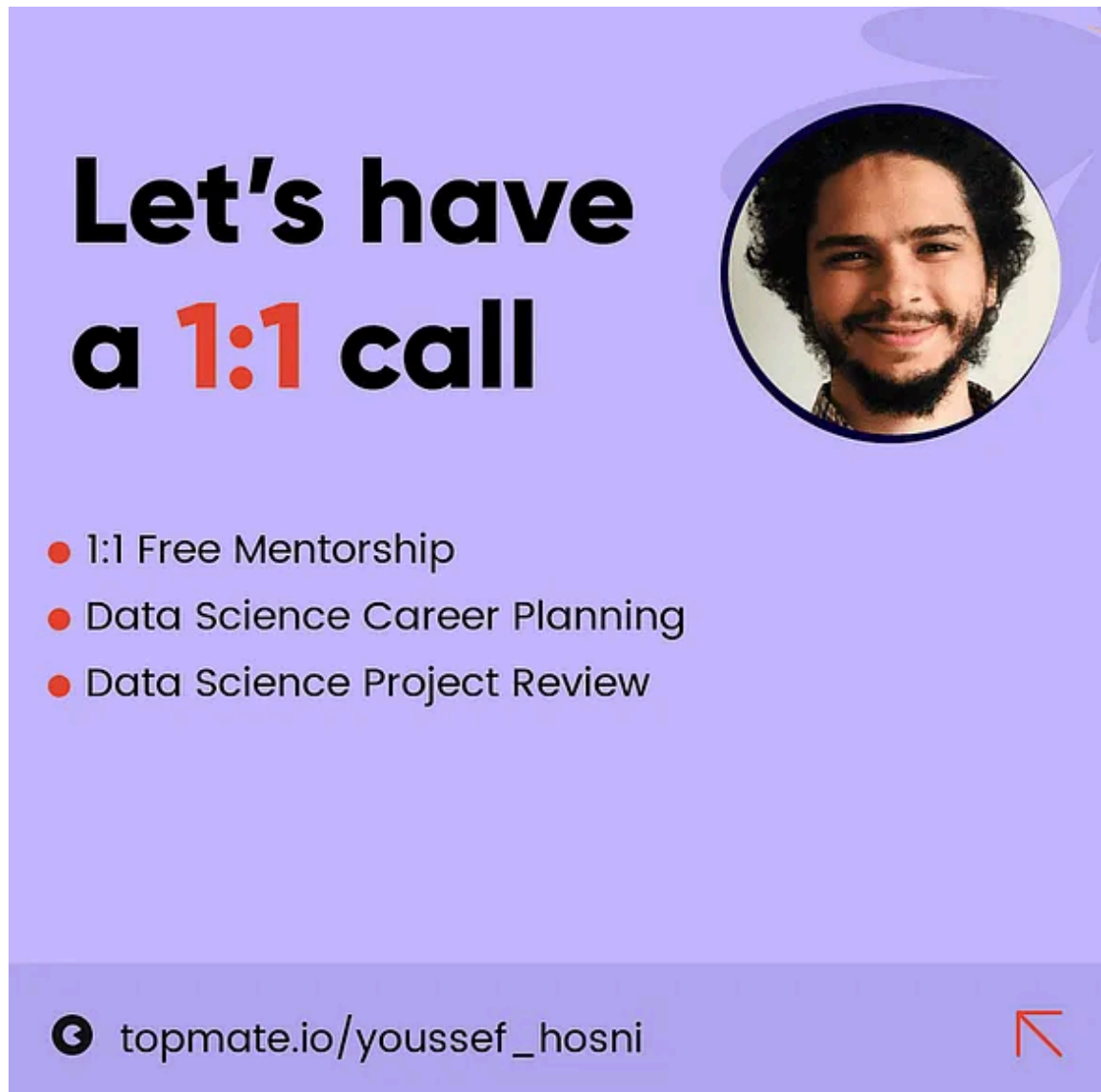
Awesome MCP Servers 👓 awesome

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A curated list of awesome Model Context Protocol (MCP) servers.

- What is MCP?
- Clients
- Tutorials
- Community
- Legend
- Server Implementations
- Frameworks
- Tips & Tricks

A curated list of awesome Model Context Protocol (MCP) servers. It covers the following:

- What is MCP?

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- Tips & Tricks

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