🚀MCP Mega Workshop Project Report

Project Title:

Multi-Tool Automation using MCP + Cursor AI IDE

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1. 🛳Objective:

To build and document a set of micro-projects using MCP integration inside Cursor AI IDE with external tool support like Cloudinary, Twilio, and Eleven Labs to simulate real-world automation scenarios.

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2.   Tools & Technologies Used:

- **Cursor IDE** (with MCP integration)
- **Cloudinary** (for image upload and hosting)
- **Twilio** (for outbound calling and phone number management)
- **Eleven Labs** (for AI voice synthesis and conversation history)
- **Streamlit** (for building user interfaces)
- **JSON** (for configuration)

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3.   Project List

💈 Project 1: LinkedIn Post Creation using MCP Server

- **Tool:** Cursor + MCP JSON
- **Prompt Used:** `Apply to mcp.json`
- **Image:** View Image
- **Cheatsheet:** https://tinyurl.com/mcp-workshop-cheatsheet
- **Result:** Successful LinkedIn post creation flow tested.

💈 Project 2: Gmail Prompt Execution

- **Screenshots:**
- **Prompt 1:** [Cloudinary](#)
- **Prompt 2:** [Cloudinary](#)
- **Purpose:** Tested Cursor's ability to execute email prompts for automation.

💈 Project 3: Railway Schedule Retrieval

- **Prompt Example:** `Give me the Hyderabad to Tirupati scheduled trains list on 2025-07-21.`
- **Additional Commands:**
- Get-train-info: `get the train info: KRISHNA EXP`
- Get-seat-availability: `Get seat availability of KRISHNA EXP`
- Live Status: `Get train live status on date: 2025-07-17, Train number: 17230`

💈 Project 4: Eleven Labs Integration with Twilio

- **Artifacts:**
- **Call History Screenshot:** Cloudinary Link
- **Twilio Screenshot:** Cloudinary Link
- **Cursor Screenshot:** Cloudinary Link

💈 Project 5: Streamlit Interface for User Input and Output

- **Cursor Folder Screenshot:** Cloudinary
- **User Input UI:** Cloudinary
- **Output UI:** Cloudinary

Learnings:

- Gained proficiency in MCP integration.
- Practical understanding of multi-platform tool interaction.
- Mastered prompt structuring for automation.

Conclusion:

This series of mini-projects demonstrate powerful integrations possible with MCP and AI-driven development environments like Cursor. They open the door for scalable automations and smarter workflows using just prompts and tool APIs.

Submission Artifact Links:

- Image: https://media-content.ccbp.in/ccbp_prod/media/misc/mcp_megaworkshop.jpeg
- Cheatsheet: https://tinyurl.com/mcp-workshop-cheatsheet
- Cloudinary Assets:

- Gmail Prompt 1: https://res.cloudinary.com/dowqn8v6j/image/upload/v1719056591/mcp_gmail_prompt1.png
- Gmail Prompt 2: https://res.cloudinary.com/dowqn8v6j/image/upload/v1719056612/mcp_gmail_prompt2.png
- Eleven Labs History: https://res.cloudinary.com/dowqn8v6j/image/upload/v1719056778/elevenlabs_history.png
- Twilio Numbers: https://res.cloudinary.com/dowqn8v6j/image/upload/v1719056839/twilio_numbers.png
- Cursor Prompt Call: https://res.cloudinary.com/dowqn8v6j/image/upload/v1719056914/cursor_prompt_call.png
- Folder Structure: https://res.cloudinary.com/dowqn8v6j/image/upload/v1719057021/folder_structure.png
- Streamlit Input: https://res.cloudinary.com/dowqn8v6j/image/upload/v1719057078/streamlit_input.png
- Streamlit Output: https://res.cloudinary.com/dowqn8v6j/image/upload/v1719057113/streamlit_output.png