



# AI MASTERY BOOTCAMP

**DURATION -: 30-DAY**

## AI TOOLS MASTERY TRAINING PROGRAM

### GOAL

This 30-day program is designed to equip individuals with practical proficiency in a diverse range of AI tools, enhancing productivity, creativity, and development capabilities across various domains. Participants will learn to effectively leverage AI for everyday tasks, specialized projects, and to streamline their workflows.

### TARGET AUDIENCE

This curriculum is suitable for professionals, developers, content creators, marketers, and anyone interested in integrating AI tools into their workflow to boost efficiency and innovation. No prior AI development experience is required, but basic computer literacy is recommended.

### LEARNING METHODOLOGY

Each day will feature a blend of tool introductions, hands-on exercises, real-world use case explorations, and mini-projects. The emphasis is on practical application and building a personal AI toolkit.



## WEEKLY BREAKDOWN AND DAILY SCHEDULE

### WEEK 1: AI FOR PRODUCTIVITY & GENERAL ASSISTANCE (DAYS 1-7)

**Focus:** Mastering AI chatbots, intelligent assistants, and automation tools to streamline daily tasks, research, and communication.

Day	Topic	Exercises/Projects
Day 1	<b>Introduction to AI Chatbots &amp; Prompt Engineering Fundamentals</b>	Explore different chatbot interfaces. Practice basic prompt engineering for information retrieval and text generation.
Day 2	<b>Advanced Prompt Engineering &amp; Context Management</b>	Learn techniques like role-playing, few-shot prompting, and managing conversation history for better outputs.
Day 3	<b>AI for Summarization &amp; Information Extraction</b>	Summarize long articles or documents. Extract key information from unstructured text.
Day 4	<b>AI for Writing &amp; Content Generation</b>	Generate various content types (emails, social media posts, blog outlines). Refine AI-generated text for tone and style.
Day 5	<b>AI for Research &amp; Data Synthesis</b>	Conduct AI-powered research on a given topic. Synthesize findings from multiple sources.
Day 6	<b>AI for Task Automation &amp; Workflow Integration</b>	Set up simple automated workflows using AI (e.g., summarize emails and add to Notion).
Day 7	<b>Week 1 Review &amp; Personal AI Assistant Setup</b>	Review learned tools. Configure a personal AI assistant for daily tasks and productivity.



## WEEK 2: AI FOR CONTENT CREATION & MARKETING (DAYS 8-14)

**Focus:** Utilizing AI tools for generating text, images, videos, and optimizing marketing campaigns. Emphasis on creative applications and brand communication.

Day	Topic	Exercises/Projects
Day 8	<b>AI for Advanced Copywriting &amp; Content Optimization</b>	Generate marketing copy for different platforms (ads, landing pages). Optimize existing content for engagement.
Day 9	<b>AI for Image Generation: Basics</b>	Create images from text prompts. Experiment with different styles and parameters.
Day 10	<b>AI for Image Generation: Advanced Techniques &amp; Editing</b>	Learn inpainting, outpainting, and image-to-image generation. Edit and refine AI-generated images.
Day 11	<b>AI for Video Creation &amp; Editing</b>	Generate short videos from text or existing media. Explore AI-powered video editing features.
Day 12	<b>AI for Social Media Content &amp; Scheduling</b>	Generate social media posts, captions, and hashtags. Plan and schedule content using AI suggestions.
Day 13	<b>AI for SEO &amp; Content Marketing Strategy</b>	Optimize blog posts for search engines using AI. Analyze competitor content with AI tools.
Day 14	<b>Week 2 Review &amp; Creative AI Project</b>	Review creative AI tools. Develop a small marketing campaign (text, image, video) using AI tools.



### WEEK 3: AI FOR DEVELOPMENT & DATA ANALYSIS (DAYS 15-21)

**Focus:** Exploring AI coding assistants, data analysis platforms, and tools for MLOps and model deployment. Emphasis on practical application in software development and data science.

Day	Topic	Exercises/Projects
Day 15	<b>AI Coding Assistants: Code Generation</b>	Generate code snippets for common programming tasks. Understand how to effectively prompt for code.
Day 16	<b>AI Coding Assistants: Code Completion &amp; Refactoring</b>	Use AI for intelligent code completion. Refactor existing code with AI suggestions.
Day 17	<b>AI for Debugging &amp; Code Explanation</b>	Debug simple code errors with AI assistance. Get explanations for complex code sections.
Day 18	<b>AI for Data Analysis &amp; Visualization</b>	Analyze datasets using AI-powered insights. Generate charts and graphs from data descriptions.
Day 19	<b>AI for Predictive Analytics &amp; Forecasting</b>	Build simple predictive models using AI tools. Forecast trends based on historical data.
Day 20	<b>Introduction to MLOps Tools (Conceptual)</b>	Understand the role of these tools in the AI development lifecycle. Explore their interfaces.
Day 21	<b>Week 3 Review &amp; Development/Data Project</b>	Review development and data AI tools. Use AI assistants to build a small data analysis script or a simple web component.



#### WEEK 4: ADVANCED AI & SPECIALIZED APPLICATIONS (DAYS 22-30)

**Focus:** Delving into advanced AI concepts like RAG, Agentic AI, and exploring specialized tools for specific industries or complex problem-solving. Includes portfolio building and continuous learning strategies.

Day	Topic	Exercises/Projects
Day 22	<b>Retrieval Augmented Generation (RAG) Tools</b>	Understand how RAG systems work. Explore examples of RAG applications.
Day 23	<b>Building a Simple RAG System</b>	Implement a basic RAG system to answer questions from a custom knowledge base.
Day 24	<b>Introduction to Agentic AI &amp; AI Agents</b>	Understand the concept of AI agents and their capabilities. Explore examples of autonomous agents.



<b>Day 25</b>	<b>Designing &amp; Building a Simple AI Agent</b>	Define an agent's goal, tools, and execution flow. Build an agent to perform a multi-step task.
<b>Day 26</b>	<b>Specialized AI Tools for Industry (Case Studies)</b>	Research and analyze how AI tools are used in a specific industry.
<b>Day 27</b>	<b>Ethical AI Tools &amp; Responsible AI Practices</b>	Understand bias detection and mitigation. Discuss ethical considerations when using AI tools.
<b>Day 28</b>	<b>Integrating Multiple AI Tools for Complex Workflows</b>	Design and implement a workflow that combines several AI tools to solve a complex problem.
<b>Day 29</b>	<b>Building Your Personal AI Toolkit &amp; Portfolio</b>	Curate a personal set of go-to AI tools. Document projects and workflows for a portfolio.
<b>Day 30</b>	<b>Future of AI Tools &amp; Continuous Learning</b>	Discuss emerging AI tools and trends. Develop a strategy for continuous learning in AI.



## MAJOR TOOLS COVERED

- **AI Chatbots & Assistants:** ChatGPT, Gemini, Claude, Microsoft Copilot, Perplexity AI, Consensus, Elicit
- **Productivity & Automation:** Notion AI, Zapier, IFTTT
- **Content Creation (Text):** Jasper AI, Copy.ai
- **Content Creation (Image):** Midjourney, DALL-E 3, Stable Diffusion, Adobe Firefly
- **Content Creation (Video):** Synthesys, Pictory AI, RunwayML
- **Marketing & SEO:** HubSpot AI tools, Semrush AI Writing Assistant, Surfer SEO AI
- **Coding Assistants:** GitHub Copilot, Cursor, Code Llama
- **Data Analysis:** Julius AI, ChatGPT (code interpreter), Tableau (with AI features), Google Sheets AI, Excel AI features
- **MLOps (Conceptual):** MLflow, DVC, Docker
- **LLM Frameworks (Conceptual/Basic):** LangChain, LlamaIndex
- **Vector Databases (Conceptual/Basic):** Pinecone, ChromaDB
- **Agentic AI (Conceptual):** AutoGPT, CrewAI

## ASSESSMENT

Throughout the 30-day program, progress will be assessed through:

- **Daily Practical Challenges:** Hands-on tasks to ensure proficiency with each tool.
- **Weekly Tool Proficiency Tests:** Short quizzes or practical assignments to evaluate understanding of tool capabilities.
- **Mid-Program Project:** An integrated project (end of Week 2) combining productivity and content creation AI tools.
- **Final Capstone Project:** A comprehensive project (end of Week 4) demonstrating the ability to integrate and leverage multiple AI tools for a complex problem, showcasing a personal AI toolkit.
- **Documentation of Personal AI Workflows:** Creating clear documentation of how AI tools are used to enhance specific tasks or processes.