

## **Workflow of Fine Tuning in Agentic AI**

### **1. Define Agent Goal**

Decide agent ka role, task aur success criteria.

### **2. Design Agent Architecture**

Planner, executor, tools aur memory structure define karo.

### **3. Data Collection**

Multi-step reasoning, tool usage aur agent trajectories collect karo.

### **4. Trajectory Labeling**

Successful aur failed actions ko clearly label karo.

### **5. Choose Fine Tuning Method**

Supervised fine tuning, reinforcement learning ya preference learning.

### **6. Model Fine Tuning**

Base LLM ko agent specific data par train karo.

### **7. Tool & Memory Learning**

Agent ko sikhana kab tool use karna hai aur memory store/retrieve karni hai.

### **8. Evaluation**

Accuracy ke sath step count, tool misuse aur task completion check karo.

### **9. Iterative Improvement**

Failures se naya data lo aur dobara fine tune karo.

### **10. Deployment & Safety**

Constraints, monitoring aur fallback rules ke sath deploy karo.

### **Summary:**

Agentic AI fine tuning ka matlab hai model ko plan karna, decide karna aur act karna sikhana.