# **AI Hackathon Program Schedule**

## **AI Hackathon Problem Design**

### **Problem Selection Parameters**

* **Scope**: MVP-level challenge solvable within 2 days (24 hours total)
* **Client Relevance**: Derive problems from actual client or internal projects to provide real-world context
* **Technical Depth**: Complex enough to showcase Multiagentic AI app development skills, having AI tools/code editor support
* **Implementation Viability**: Must result in a functional working prototype

### **Expected Deliverables**

1. Detailed system architecture with explanations
2. Tech stack selection rationale
3. Multi-agent AI solution leveraging various tools
4. Working codebase
5. User interface (Streamlit or equivalent)
6. Cloud deployment
7. Technical documentation
8. 5-minute pitch presentation

## **Evaluation Framework (100 Points)**

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| **Criterion** | **Points** | **Description** |
| Problem Understanding | 15 | Depth of domain research, problem framing, and requirement analysis |
| System Architecture | 15 | Quality of solution design, component interactions, and scalability considerations |
| AI Technical Implementation | 35 | Code quality, technical complexity, effective utilization of multi-agent approaches and AI tools |
| Frontend Interface | 10 | Interface design, usability, and accessibility |
| Working Prototype | 10 | Functionality, reliability, and completeness of MVP |
| Documentation | 5 | Clarity, completeness, and quality of documentation |
| Deployment Quality | 5 | Successful cloud deployment and operational stability |
| Pitch Presentation | 5 | Communication effectiveness, demo quality, and Q&A handling |

## **Tentative Hackathon Schedule - 30th April - 1st May**

### **Day 1: Development Launch (10:00 AM - 10:00 PM)**

#### **Opening Session (10:00 AM - 11:00 AM)**

* **Welcome Address** (10 min)
* **Problem Statement Reveal** (25 min)
  + Detailed presentation of the client/internal project-based challenge
  + Clarification of MVP expectations and constraints
* **Evaluation Framework Explanation** (20 min)
  + Walkthrough of all evaluation criteria
  + Emphasis on technical implementation scoring (35 points)
* **Q&A Session** (15 min)

### **Development Period 1 (11:00 AM - 1:00 PM)**

* Participants begin problem analysis and architecture planning and submit 3-4 codebase.
* Mentors available for consultation
* Support team addressing technical issues

### **Lunch & Prayer Break (1:00 PM - 2:00 PM)**

### **Development Period 2 (2:00 PM - 5:30 PM)**

* Continued development with focus on core AI functionality and submit 5-7 codebase.
* Mentors rotating among participants for guidance
* Support staff monitoring for technical blockers

### **Prayer & Snack Break (5:30PM - 6:00PM)**

### **Architecture Review Session (5:30 PM - 6:30 PM)**

* **Judge-Led Architecture Review**
  + Each team presents their architecture approach (5 minutes each)
  + Judges provide immediate feedback for potential improvements
  + Focus on system architecture and problem understanding criteria

### **Development Period 3 (6:30 PM - 8:30 PM)**

* Participants incorporate judge feedback
* Technical mentors available for consultation
* Focus on core AI implementation and submit 3-4 codebase.

### **Day 1 Technical Evaluation (8:30 PM - 9:30 PM)**

* **End-of-Day Assessment**
  + Judges review current progress
  + Preliminary scoring on:
    - Problem Understanding (15 points)
    - System Architecture (15 points)
    - Initial AI Implementation progress
  + Feedback provided to participants before departure

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## **Day 2: Completion and Presentation (10:00 AM - 10:00 PM)**

### **Morning Check-in (10:00 AM - 10:30 AM)**

* Brief status updates from participants
* Review of Day 1 feedback
* Clarification of final day expectations

### **Development Period 4 (10:30 AM - 1:00 PM)**

* Implementation of core AI components and submit 3-5 codebase.
* Frontend development
* Initial cloud deployment preparation

### **Lunch & Prayer Break (1:00 PM - 2:00 PM)**

### **Development Period 5 (2:00 PM - 3:00 PM)**

* Final implementation push
* Documentation development
* Deployment testing

### **Mid-Day Progress Review (3:00 PM - 4:00 PM)**

* **Judge-Led Progress Assessment**
  + Participants demonstrate current functionality
  + Judges provide final guidance on:
    - AI Technical Implementation
    - Interface development
    - Documentation completion
  + Scoring update on implementation progress

### **Final Development Sprint (4:00 PM - 5:30 PM)**

* Last-minute refinements based on judge feedback
* Completion of documentation
* Final deployment
* Preparation of pitch presentations

### **Code Freeze & Final Submission (5:30 PM)**

* All code commits finalized
* Deployment URLs submitted
* Documentation uploaded
* Presentation materials finalized

### **Prayer & Snack Break (5:30PM - 6:00PM)**

### **Final Technical Evaluation (5:30 PM - 7:00 PM)**

* **Comprehensive Technical Assessment**
  + Judges conduct thorough code reviews
  + Testing of deployed applications
  + Evaluation of:
    - AI Technical Implementation (35 points)
    - Working Prototype (10 points)
    - Deployment Quality (5 points)
    - Documentation (5 points)

### **Final Pitch Presentations (7:00 PM - 9:00 PM)**