



Based on the content of the **Presidential AI Challenge Mentor Guides for Track 1 (Proposal Submission)** and **Track 2 (Implementation)**, and their alignment with the **Indiana State Educational Standards**, here is a list of relevant standards these activities meet:

---

## **Indiana Academic Standards Alignment**

### **1. Computer Science Standards (Grades 6–12)**

These activities align with Indiana’s K–12 Computer Science Standards, especially in the following areas:

- **Impact and Culture**
    - Explore the ethical implications of AI and its societal impact.
    - Understand responsible use of technology and AI bias.
  - **Programs and Algorithms**
    - Use block-based or text-based programming tools (e.g., Scratch, App Inventor).
    - Develop and refine computational artifacts.
  - **Data and Information**
    - Create and interpret flowcharts, mock-ups, and simulations.
    - Use AI tools like Teachable Machine and ChatGPT for data classification and NLP.
  - **Networking and Collaboration**
    - Collaborate using shared platforms (Google Docs, Padlet).
    - Engage in peer mentoring and team roles.
  - **Creating and Testing Computational Artifacts**
    - Design, build, and test AI prototypes.
    - Gather feedback from stakeholders and refine solutions.
- 

### **2. Integrated STEM Standards**

The challenge supports inquiry-based, hands-on learning and integrates science, technology, engineering, and math through:

- Problem-solving using AI tools.
  - Designing real-world solutions.
  - Reflecting on ethical and social implications of technology.
-

---

### 3. Graduation Pathways – Employability Skills

Both tracks fulfill the **Project-Based Learning Experience** requirement under Indiana’s Graduation Pathways:

- Students identify real-world problems and develop AI-based solutions.
- They engage in interviews, research, design, testing, and public communication.
- Emphasis on collaboration, leadership, and reflection supports employability benchmarks.

---

### 4. College and Career Readiness Standards

Activities encourage:

- Exploration of future careers in AI and technology.
- Development of soft skills like communication, teamwork, and ethical reasoning.
- Use of tools and platforms relevant to modern tech careers.

---

### References

- [1] [Indiana K-12 Computer Science Standards](#)
- [2] [DOE: Indiana Academic Standards - IN.gov](#)
- [3] [DOE: Graduation Pathways - IN.gov](#)