Internship Assignment for AI, Python, Flutter, and Web Development

Note: You may use any AI tools or platforms (e.g., ChatGPT, GitHub Copilot, Figma AI, etc.) to assist with coding, design, and implementation tasks.

Objective:
Evaluate candidates' skills and practical knowledge in AI, Python programming, Flutter app development, and Web Development.

Task 1: Python & AI (30 points)

1. **Problem Statement:**
    - Create a Python script that uses a publicly available dataset of your choice to build a simple AI model (Machine Learning or Deep Learning).
2. **Requirements:**
    - Clearly comment your code explaining each step.
    - Implement data preprocessing, model training, and evaluation.
    - Display model accuracy or relevant performance metrics.

Task 2: AI Sales Agent (20 points)

1. **Problem Statement:**
    - Create a simple conversational AI Sales Agent using Python that simulates sales conversations.
2. **Requirements:**
    - Use a conversational AI framework or API of your choice (e.g., OpenAI GPT API, Gemini, etc.).
    - The agent should answer product-related inquiries, recommend products, and handle basic sales interactions.
    - Demonstrate a working conversational flow with at least 3 different scenarios.

Task 3: Flutter App Development (25 points)

1. **Problem Statement:**
    - Develop a simple Flutter application with at least two screens: a home screen and a details screen.
2. **Requirements:**
    - The home screen should contain a list of items.
    - Tapping on an item should navigate the user to the details screen displaying detailed information.
    - Implement proper state management.
    - Clearly structure your code using the standard project architecture (widgets, screens, and utilities).
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Task 4: Web Development (15 points)

1. **Problem Statement:**
    - Create a responsive landing page for a fictional product or service.
2. **Requirements:**
    - Use HTML, CSS, and JavaScript (React is optional but preferred).
    - The page should include a navigation bar, main content area, a call-to-action button, and a responsive design that adapts well to desktop and mobile views.
    - Demonstrate your understanding of layout, design principles, and responsiveness.

Task 5: Documentation and Presentation (10 points)

1. **Problem Statement:**
    - Prepare a short PDF document or presentation summarizing your solutions.
2. **Requirements:**

- Briefly describe your approach to each task.
- Include screenshots or outputs demonstrating the functionality.
- Highlight any challenges faced and how you overcame them.