AI Features for PM Internship SIH Website

Adding Artificial Intelligence (AI) to the PM Internship SIH project can make the website more advanced, user-friendly, and impactful. Below are some practical AI features you can implement.

- **Smart Internship Matching Engine**: Use ML/NLP to match students with internships based on skills, qualifications, and preferences. Example: Extract skills from resume → match with job descriptions using similarity models (TF-IDF, BERT, etc.).
- **Resume Parser with AI**: Allow students to upload resumes. Use NLP (Spacy, HuggingFace) to extract details like Name, Email, Skills, Education, Experience, and auto-fill registration forms.
- **AI Chatbot (Virtual Assistant)**: Deploy an AI chatbot using Rasa, Dialogflow, or OpenAI API to answer FAQs such as application steps, document requirements, and internship suggestions.
- **Internship Recommendation System**: Build a recommendation engine to suggest internships based on skills, past applications, and preferences using Collaborative Filtering or Content-based filtering.
- **AI-Powered Fraud Detection**: Detect fake or duplicate resumes using similarity checks. Identify mismatches like false claims in experience or education.
- **Location Intelligence with AI**: Suggest nearby internship opportunities using clustering (K-Means) based on demand and availability. Integrate maps for visualization.
- **Sentiment Analysis on Feedback**: Analyze student feedback after internships using NLP sentiment analysis. Highlight strengths and weaknesses in internship programs.

Recommended Tech Stack:
- Backend: Python (Django/Flask/FastAPI)
- AI/ML Libraries: scikit-learn, TensorFlow, PyTorch, HuggingFace, Spacy
- Database: PostgreSQL/MySQL, ElasticSearch (for search)
- Frontend: React / HTML-CSS-JS + Chatbot Widget

Example Flow:
1. Student uploads resume → AI extracts skills → Website suggests best internships.
2. Student asks chatbot: “Which internships in Delhi for Python?” → AI chatbot replies.
3. System ranks companies by match score → Student applies.