A screen shot of a project

AI-generated content may be incorrect.

**Sprint 1: Research & Problem Understanding (SCRUM-1)**

**Timeline:** February  
**Goal:** Establish a strong foundation by understanding the problem, existing research, and data sources.

* **SCRUM-1**: Conduct Literature Review
* **SCRUM-2**: Analyze Naukri's Job Postings
* **SCRUM-3**: Define Data Collection Strategy

This phase involves research activities and setting the stage for data collection.

**Sprint 2: Data Collection & Preprocessing (SCRUM-2)**

**Timeline:** February - March  
**Goal:** Gather and clean job listing data from Naukri.com for AI model training.

* **SCRUM-4**: Develop Web Scraper
* **SCRUM-5**: Data Cleaning

This phase focuses on building a web scraper and preparing data for training.

**Sprint 3: AI Model Development & Training (SCRUM-3)**

**Timeline:** March - April  
**Goal:** Develop and fine-tune the AI model for detecting deceptive job postings.

* **SCRUM-6**: Select ML/NLP Models for Fake Job Detection
* **SCRUM-7**: Train and Evaluate Model
* **SCRUM-8**: Optimize Model Performance

This phase involves selecting an AI approach (likely NLP & machine learning), training the model, and improving its accuracy.

**Sprint 4: Backend Development & Model Deployment (SCRUM-18)**

**Timeline:** April  
**Goal:** Deploy the trained AI model and integrate it into a backend service.

* **SCRUM-9**: Build AI Model API
* **SCRUM-10**: Test API Integration

This ensures the model can be accessed by the Chrome extension and performs well in real-world conditions.

**Sprint 5: Chrome Extension Development (SCRUM-21)**

**Timeline:** April - May  
**Goal:** Create a functional browser extension that alerts users about fake job listings.

* **SCRUM-11**: Design Chrome Extension UI
* **SCRUM-12**: Connect AI Model to Chrome Extension
* **SCRUM-13**: Implement Alerts & Warning System

This is where the core product comes to life, with UI and AI integration.

**Sprint 6: Testing, Deployment & Research Completion (SCRUM-25)**

**Timeline:** May  
**Goal:** Finalize the project, conduct testing, and prepare for research publication.

* **SCRUM-14**: Publish Chrome Extension
* **SCRUM-15**: Finalize Research Paper

This ensures a fully functional, deployable product and documents findings for academic/publication purposes.

**Summary & Key Insights**

1. **Logical Progression of Sprints:**
   * **Research (Sprint 1) → Data Collection (Sprint 2) → AI Model Development (Sprint 3) → Deployment (Sprint 4) → Chrome Extension Development (Sprint 5) → Testing & Finalization (Sprint 6).**
2. **Overlap Between Sprints for Efficiency:**
   * Example: Data collection starts while research is ongoing, and backend development starts before model optimization is fully complete.
3. **Final Deliverables:**
   * A deployed **Chrome extension** that proactively detects deceptive job listings.
   * A **published research paper** summarizing findings, methodology, and results.