

# Milestone Document for Student-At-Risk Predictor

## 1. Milestones Achieved:

### **Initial Research and Conceptualization:**

Completed a comprehensive study on existing Canvas functionalities and at-risk student identification methods.

### **Technology Stack Finalization:**

Selected appropriate technologies for front-end, back-end, and AI/ML components.

## 2. Current Focus:

### **Prototype Development:**

Developing an initial low code prototype to confirm technical requirements w/ sponsor.  
prototype of the tool with basic functionalities.

### **Front-End Development:**

Working on integrating the tool within the Canvas UI for seamless user experience.

### **Back-End Integration:**

Focusing on API development for efficient data retrieval and processing.

### **AI/ML Model Training:**

Refining the regression model and custom GPT model for accurate predictions and relevant content recommendations. Reach Goal: Generalize for all classes.

## 3. Upcoming Milestones:

### **User Interface Enhancement:**

Aim to finalize a user-friendly, intuitive interface that aligns with Canvas's design aesthetics.

### **System Integration and Testing:**

Plan to fully integrate the front-end and back-end systems and conduct comprehensive testing.

**AI/ML Model Optimization:**

Focus on enhancing the accuracy of the predictive model and the relevance of the AI-generated content.