

# AdviseWise: AI-Powered Academic Advising System



## Overview:

The AI-Powered Academic Advising System is a transformative project designed to revolutionize the academic advising process at Syracuse University. Leveraging advanced artificial intelligence (AI) technologies, the system aims to provide personalized guidance to students throughout their academic journey. By analyzing individual student profiles, academic history, and career aspirations, the system will offer tailored recommendations, career path insights, and real-time feedback to enhance overall academic success.

## Problem Statement:

- Academic advising is often limited by advisor availability and student access, hindering personalized guidance and timely support.
- Students lack efficient tools to navigate complex academic choices, potentially derailing their progress towards career goals.

- Inefficient scheduling and lack of performance monitoring can lead to academic difficulties and missed opportunities.

## Proposed Solution:

### 1. **Personalized Academic Guidance:**

Provide students with personalized course recommendations based on their academic history, interests, and career goals, optimizing their academic journey.

### 2. **Career Path Alignment:**

Assess the alignment between a student's academic choices and their desired career path, offering insights and recommendations to enhance career preparedness.

### 3. **Efficient Scheduling Assistance:**

Assist students in planning efficient academic schedules by considering course availability, prerequisites, and potential time conflicts.

### 4. **Real-Time Performance Monitoring:**

Implement a real-time monitoring system to identify patterns or trends in student academic performance, enabling timely interventions and support.

### 5. **Interactive Chatbot Interface:**

Develop an interactive chatbot interface for students to receive instant responses to inquiries related to course selections, major choices, and academic policies.

### 6. **Historical Data Analysis:**

Analyze historical academic data to identify successful academic pathways, enabling the system to learn from past experiences and provide informed suggestions.

### 7. **Goal Alignment and Progress Tracking:**

Enable students to input and track their academic and career goals, with the system continually assessing alignment and providing guidance on adjustments.

### 8. **Integration with Learning Analytics:**

Integrate with learning analytics tools to assess students' learning styles, preferences, and strengths/weaknesses, contributing to more tailored academic advice.

#### 9. **Notifications and Reminders:**

Implement a system for sending notifications and reminders for important academic deadlines, ensuring students stay organized and informed.

#### 10. **Feedback Mechanism:**

Establish a feedback mechanism for students to provide insights on the advice received, contributing to the continuous improvement of AI algorithms.

### Users:

- Syracuse University students seeking academic guidance, scheduling assistance, and career path insights.
- Academic advisors seeking to augment their capabilities and reach more students.
- Syracuse Alumni who are willing to help matriculated SU students for academic or career guidance.
- University administration aiming to improve student success rates and graduation outcomes.

### Objective:

- Improve student academic performance and graduation rates.
- Increase student satisfaction with academic advising.
- Enhance student career preparedness.
- Reduce advisor workload and increase reach.
- Improve data-driven decision making in academic advising.

### Methodology:

- Develop and train AI models using historical student data and relevant external datasets.
- Design and implement a user-friendly interface for student interaction.
- Integrate with existing university systems for data access and seamless operation.
- Pilot test the system with a selected student group and gather feedback.
- Refine and iterate based on feedback and performance data.

### Team:

The project will require a team of experts in:

- Artificial intelligence and machine learning
- Educational technology and data analysis
- Academic advising and student support
- User interface and experience design

## Conclusion:

The AI-Powered Academic Advising System aims to revolutionize academic guidance at Syracuse University, providing students with personalized, data-driven recommendations for a more successful academic journey.