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**Sample Sponsor Capstone Project Proposal**

The following is a sample proposal that matches the fields required for submission of a sponsored College of Information Science capstone project undergraduate student team. Your proposal may be as technical as this one, or more general. The student teams go through a rigorous customer requirement phase, so elements you don’t include in your proposal are likely to be fleshed out with your team at the start of the program.

**Project Name:** Course Scheduling Analysis and Optimization

**Sponsor Organization:** College of Information Science

**Project Contacts:** Primary Advisor: Tom Sponsor, Data Manager, test@arizona.edu, 520-555-5555; Secondary Advisor: Jamilla Sponsorella, Data Associate, test2@arizona.edu, 520-444-4444

**Project Type:** Data Analysis

**Project Intellectual Property:** Company Controlled

**Project Citizenship Restriction:** No

**Project Scope:** The College of Information Science has grown considerably in the last 10 years, now housing 9 undergraduate and graduate programs with more than 1,500 students. Additionally, the pandemic has shifted the way both students and faculty think about online classes. These changes have resulted in significant changes to course enrollment, both in class selection and modality. Our project tasks the student team with analyzing existing scheduling data and student surveying to create a report outlining trends in scheduling and enrollment as well as recommendations about course scheduling to maximize efficiency and student satisfaction.

**Scope**: (1) Analyze course schedules and teaching formats to help improve student success at the College of Information Science. (2) Perform data analysis, using machine learning models to evaluate enrollment patterns and student feedback. (3) Provide insights into how course scheduling can be better optimized to boost student engagement, academic performance and overall satisfaction. (4) Identify problem areas that prevent students from completing their degree. (5) Deliver a detailed report with visualizations, showing our findings and giving practical suggestions for making class schedules and course formats better to meet the needs of students and the college.

**Additional Resources:** The College of Information Science will provide FERPA-compliant data to the team for analysis.

**Skills Requested**: Data analysis, data visualization and machine learning.