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RAID Log for Career Path Prediction and Guidance System

Risks

Risk	Impact	Probability	Mitigation Strategy	Owner
Insufficient or poor-quality data	High	Medium	Gather data from multiple reliable sources, implement data cleaning and preprocessing techniques	Data Scientist
Overfitting of machine learning models	High	Medium	Use regularization techniques, cross-validation, and ensemble methods	Data Scientist
Lack of stakeholder buy-in	High	Low	Engage stakeholders throughout the project, communicate benefits clearly	Project Manager
Technological limitations (e.g., hardware constraints)	Medium	Low	Optimize code, leverage cloud computing resources if needed	Software Engineer

Assumptions

Assumption	Justification
Students will provide accurate and honest information about their skills and interests	Necessary for the system to provide relevant career guidance
Historical data is representative of current and future student populations	Allows the model to learn patterns and make accurate predictions
Stakeholders will provide necessary support and resources for the project	Ensures successful project execution

Issues

Issue	Impact	Mitigation	Owner	Status
Difficulty in obtaining student data due to privacy concerns	High	Collaborate with the administration, ensure data security and anonymity	Project Manager	Open
Disagreement among stakeholders on desired features and outcomes	Medium	Facilitate discussions, align expectations, prioritize requirements	Project Manager	Closed
Technical challenges in integrating the system with existing infrastructure	Medium	Allocate sufficient time for integration testing, collaborate with IT team	Software Engineer	Open

Dependencies

Dependency	Type	Impact	Mitigation
Availability of student data	External	High	Establish data sharing agreements, explore alternative data sources
Cooperation from career counselors and advisors	Organizational	Medium	Involve them in the project planning and implementation process
Compatibility with existing software systems	Technical	Medium	Conduct thorough system analysis, plan for necessary upgrades or modifications

This RAID log will be regularly updated throughout the project lifecycle to proactively manage risks, assumptions, issues, and dependencies. The project team will review and discuss the RAID log during weekly meetings to ensure timely mitigation of potential problems.