

Quantum AI Capstone Project Proposal

(Course: *Quantum Artificial Intelligence*)

Prepared by:

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PROJECT OVERVIEW

Briefly describe what your project aims to achieve and why it matters.

Example:

This project aims to develop a hybrid quantum-classical model for financial forecasting, leveraging quantum machine learning principles.

PROBLEM STATEMENT

Define the real-world problem your project addresses and its significance.

- What issue are you solving?
- Why is it relevant in today's AI landscape?

OBJECTIVES

List your main goals clearly.

- 1.
- 2.
- 3.

PROPOSED SOLUTION

Outline your approach. Include algorithms, models, or tools.

- Quantum frameworks (Qiskit, PennyLane, Cirq, etc.)
- Classical components (Python preprocessing, ML models)
- Architecture sketch (*optional visual placeholder*)

DATASET DESCRIPTION

Provide details about your dataset.

Attribute	Description
Source	
Size	
Features	
Format	

EXPECTED OUTCOMES

What do you expect to achieve or demonstrate through your project?

- Performance benchmarks
- Quantum advantage demonstration
- Visualization or deployment results

TOOLS & TECHNOLOGIES

List all tools you plan to use (IDE, libraries, simulators, cloud platforms, etc.)

TIMELINE

Phase	Task	Duration	Deadline
Phase 1	Problem Definition		
Phase 2	Data Preparation		
Phase 3	Model Development		
Phase 4	Evaluation & Report		

TEAM DETAILS

Member Name	Role	Responsibility

FACULTY / MENTOR REVIEW

- Feedback & Notes:
 - Signature:
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