**Topic 4: Capstone: Milestone 2**

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CST-570-O500: Machine Learning for Computer Science

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# **Overview**

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# Architectural Design Title Page

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# Design Planning Summary

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# Overview of Design Concepts

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# Detailed Solution Architecture

Overview of how the proposed design fits into the overall project structure.

Object and data element definitions, including a description of all objects with UML diagrams. Describe the purpose and characteristics of all data elements, data sources, and collection methods.

The following site provides useful examples of UML diagrams: https://www.uml-diagrams.org/index-examples.html

Additional diagrams as needed by your particular system, such as entity-relationship diagrams, workflow diagrams, database schema, detailed flowcharts, algorithms, and so on.

Collaboration diagrams and/or sequence diagrams to show the workflows of components/packages/classes inside the component.

Algorithm descriptions, including detailed performance analysis and metrics.

Detailed specifications for all screens, interfaces and integration points, processes, conversion, and reports.

Describe any packages, software libraries, hardware, and software technologies, and their use.

Description of the approach and resources required to assure system security.

Use the template to list the hardware and software technologies.

# **Summary**

This **References**

Gemini LLM (n.d.). Gemini - chat to supercharge your ideas. (n.d.). Gemini.google.com. https://gemini.google.com

Microsoft Corporation. (2024). Microsoft Copilot [Software as a Service]. https://copilot.microsoft.com