**Capstone project Scope Document**

**Capstone project Title:**

* AIML Tool for Phishing Domain Detection

**Group Members:**

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**Problem Statement:**

* Create an intelligent system using AI/ML to detect phishing domains which imitate look and feel of genuine domains

**Objectives:**

* Develop an AI/ML-based tool capable of accurately detecting phishing domains in real-time.
* Integrate the AIML tool into existing cybersecurity frameworks.
* Implement an intelligent system that continuously learns and adaptative.
* Achieve a high level of precision and recall in identifying malicious domains.
* Enhance user awareness of potential phishing threats through an intuitive user interface.

**Capstone project description:**

* The project involves the creation of an AIML-based tool that leverages machine learning algorithms to analyze various features and characteristics of domain names.
* The tool will be trained on a dataset of known phishing domains to learn patterns and indicators associated with such malicious activities.
* The system should be capable of real-time detection and provide a confidence score for each analyzed domain.

**Capstone project Deliverables:**

* Trained and validated machine learning model for phishing domain detection.
* Web-based interface for users to input and scan domains.
* Documentation outlining the tool's functionality and integration guidelines.
* Regular updates to the model based on new threat intelligence.
* User manual for implementing and configuring the tool.

**Constraints:**

* Limited availability of labeled datasets for training.
* The tool must be compatible with common web browsers and platforms.

**Estimated Capstone Project Duration:**

* Project Inception, Planning, Research and Literature Review- 1 mo
* Dataset Collection and Preprocessing -1 week
* Web interface development – 3 weeks
* Integration and testing – 3 weeks
* Documentation and deployment -2 weeks

**Estimated Capstone Project Cost:**

* Rough estimate around 2000 to 3000 rs