Work Breakdown Structure for Capstone Project: "AIML Tool for Phishing Domain Detection"

Capstone Project Members:

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Capstone Project Objective(s):

Develop an artificial intelligence and machine learning (AIML) tool for detecting phishing domains with high accuracy and efficiency.

Work Breakdown Structure - Deliverables:

1. AIML Tool for Phishing Domain Detection
   1. Project Initiation
      1. Establishing Project Objectives
      2. Defining Project Scope
      3. dentifying Key Stakeholders
      4. Developing Communication Strategies
      5. Building the Project Team
      6. Conducting the Project Kickoff Meeting
   2. Research and Requirements Gathering
      1. Conducting a Comprehensive Literature Review
      2. Defining Technical Requirements
      3. Identifying and Acquiring Necessary Datasets
      4. Researching and Adhering to Ethical Guidelines
   3. Model Development
      1. Data Preprocessing:
         1. Collection of Data
         2. Cleaning and Filtering Data
         3. Labeling Data
      2. Model Selection:
         1. Researching Available AI/ML Models
         2. Determining the Most Suitable Model
      3. Model Training:
         1. Initial Model Training
         2. Validation of Model Accuracy
         3. Fine-tuning the Model
   4. User Interface Development
      1. Designing UI/UX:
         1. Creating Wireframes
         2. Developing Mockups
      2. Frontend Development:
         1. Implementing UI Elements
         2. Integrating UI with Backend Systems
   5. Integration and Testing
      1. Model Integration:
         1. Integrating the Model with Backend Systems
         2. Validating Model Integration
      2. UI Integration:
         1. Integrating UI with Backend Systems
         2. Validating UI Functionality
      3. System Testing:
         1. Conducting End-to-End Testing
         2. Addressing Identified Bugs and Issues
   6. Documentation
      1. Model Documentation:
         1. Documenting Model Architecture
         2. Providing Guidelines for Model Usage
      2. UI Documentation:
         1. Documenting UI/UX Design Principles
         2. Providing Guidelines for UI Usage
      3. Project Report:
         1. Compiling the Final Project Report
         2. Reviewing and Editing the Report for Accuracy
   7. Deployment
      1. Preparing the Deployment Environment
      2. Deploying the Model and UI Components
      3. Conducting User Training Sessions (if necessary)
   8. Project Closure
      1. Conducting the Final Project Review
      2. Handing Over Deliverables to the Maintenance Team (if applicable)
      3. Archiving Project Documentation for Future Reference
      4. Celebrating the Successful Completion of the Project
   9. Contingency Planning
      1. Identifying Potential Risks and Challenges
      2. Developing Contingency Plans to Address Identified Risks
      3. Regularly Reviewing and Updating Contingency Plans to Ensure Relevance