## **Low-Level Design Document**

Low-Level Design Document: Phishing Website Detection System
1. Feature Extraction:
- Extracted 20 features from input URL including URL length, presence of '@' symbol, number o
subdomains, presence of HTTPS, etc.
2. Feature Scaling:
- Applied custom min-max normalization to keep dependency light and compatible with deployment.
3. Model:
- Random Forest Classifier trained on preprocessed and normalized features. Tuned
hyperparameters for optimal accuracy.
4. Backend (Flask):
- Flask app receives input URL, processes it, predicts the result using the ML model, and returns the
classification (Phishing or Legitimate).
5. Hosting:
- The complete app was hosted using Render for public access.