

HUD Data Analytics Post-Payment Claims Audit Prototype

Office of Housing - Office of Financial Services
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IT MODERNIZATION
Centers of Excellence

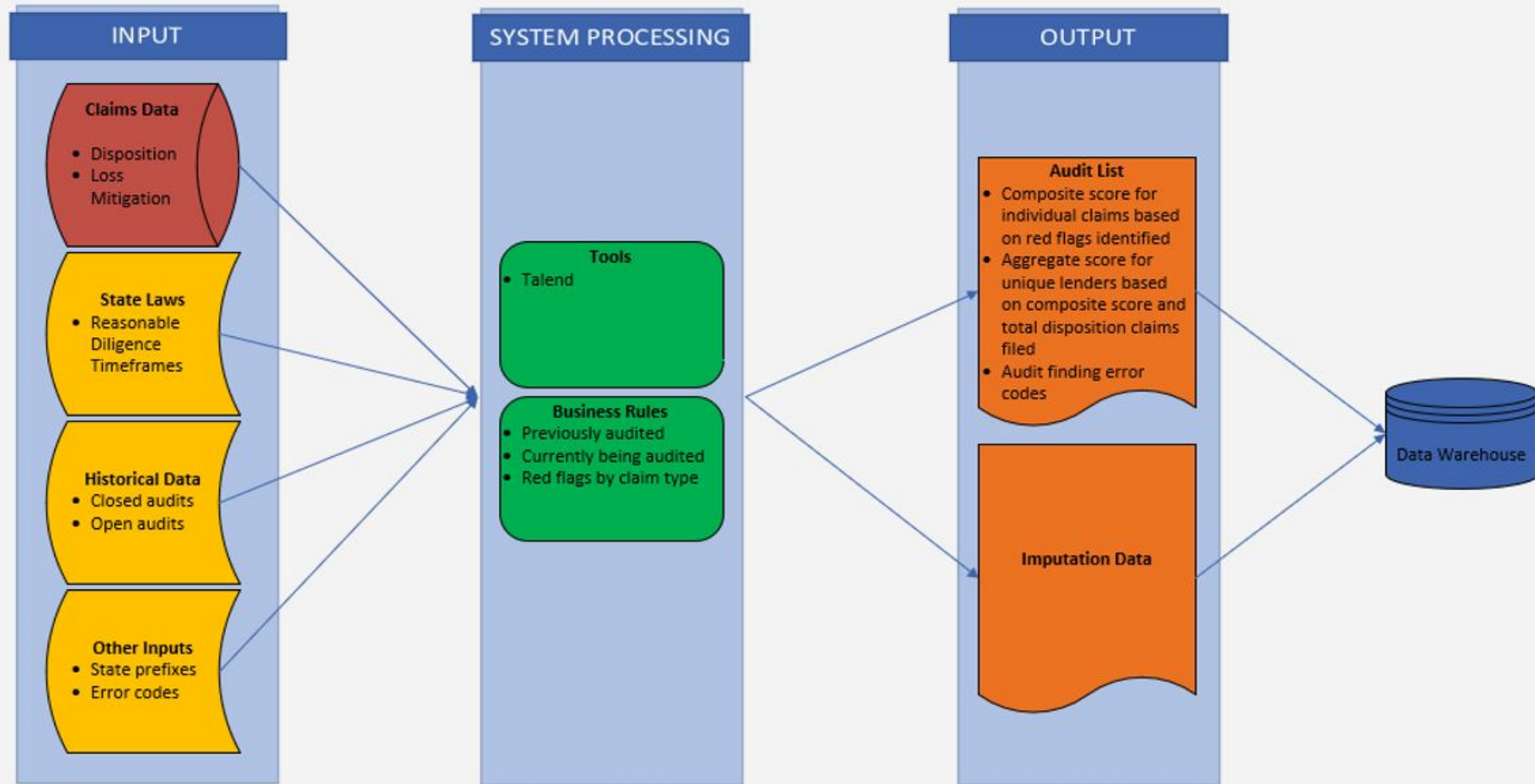
Prototype Overview

- Goal
 - Develop a model that can identify high-risk post-payment claims through a standardized approach that eliminates a significant amount of manual work, and also generates a higher percentage of true positives, thus reducing lost funding for HUD
- Benefits (not comprehensive)
 - Decrease in audit team's workload and labor hours by creating an efficient selection process with a more concentrated focus on higher-risk claims
 - Decrease in lost funding by augmenting the identification of improper claims payments to audit
 - More scientific-based approach to the audit identification process
 - Improved lender customer experience

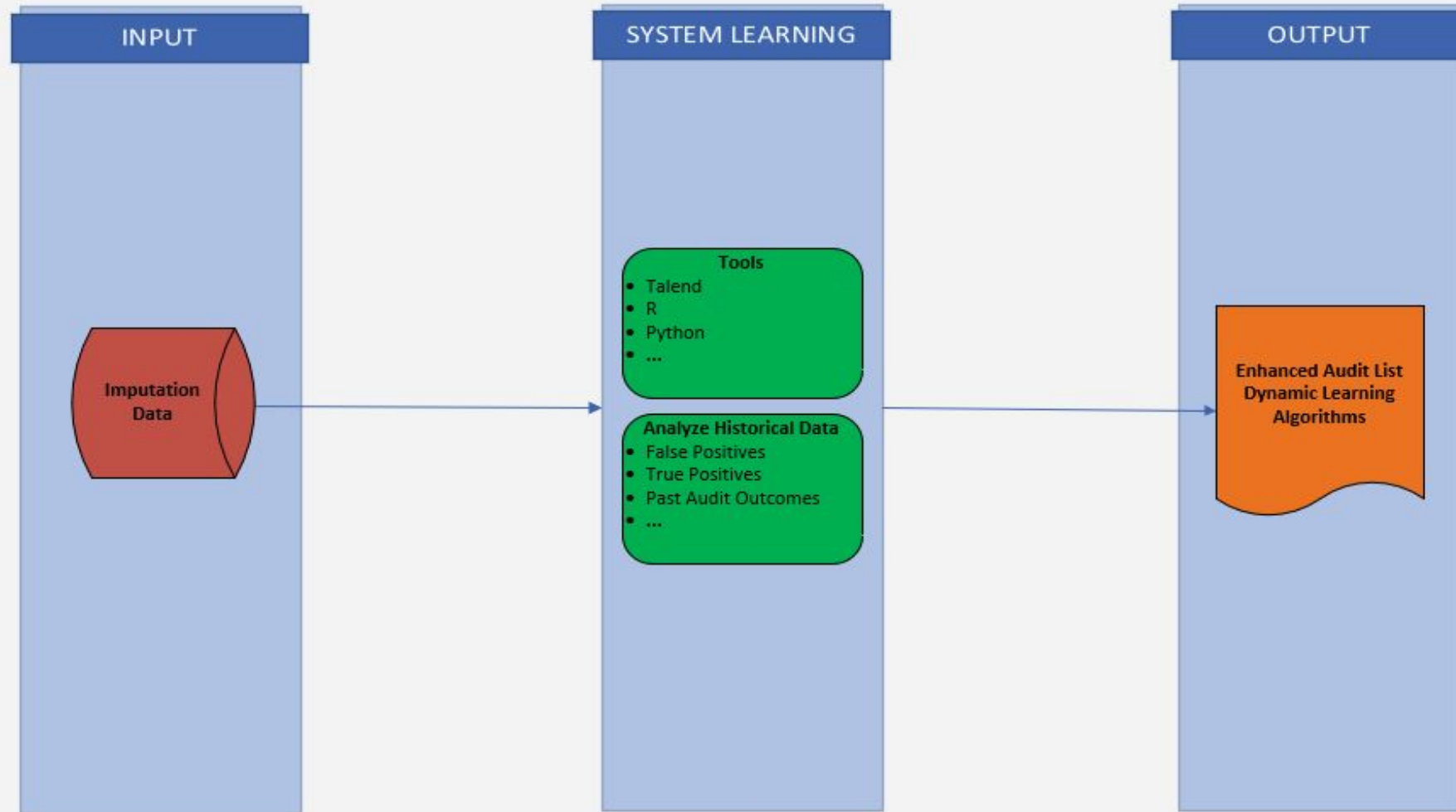
Prototype Overview

- Three-Staged Approach
 - Composite Scoring
 - Machine Learning/Artificial Intelligence
 - Semi-Supervised Processing
- Scope
 - Phase I CoE
 - Develop a composite scoring prototype
 - Phase II CoE
 - Build out and fully implement the prototype
 - Incorporate the machine learning/artificial intelligence component
 - Incorporate the semi-supervised processing component

STAGE 1: COMPOSITE SCORING



Stage 2: Machine Learning/Artificial Intelligence



Stage 3: Semi-Supervised Processing

