



AI-Enhanced Claims Processing Automation

Client

Regional Property Casualty Insurer in Tampa, Florida

Industry

Property Casualty Insurance

Solution

Document Processing Automation Claims Workflow Intelligence System

Challenge

Tampa regional insurer processing 28,000 annual claims faced 14-day average processing times, \$3.2M annual costs from manual document review and data entry, 35% of claims requiring multiple follow-ups for missing information, inconsistent initial claim assessments across adjusters, and customer satisfaction issues due to lengthy processing delays and frequent information requests.

AI Consulting Approach

- **Claims Process Analysis:** AI consultants analyzed existing claim workflows, document types, and processing bottlenecks to identify automation opportunities using natural language processing and document classification technologies.
- **Practical Automation Implementation:** Machine learning models processing claim documents to extract key information and route claims to appropriate adjusters based on complexity and specialization.

AI Solution

- **Document Classification System:** AI application automatically sorting incoming claim documents by type (police reports, medical records, photos) and extracting relevant data fields
- **Information Gap Detection:** Natural language processing analyzing claim submissions to identify missing documentation before adjuster review begins
- **Priority Routing Intelligence:** Basic machine learning scoring claims by complexity and urgency to route high-value or time-sensitive cases to senior adjusters



- Status Communication Automation: Simple system generating automated status updates to customers based on claim progression through workflow stages

Implementation (20 weeks total)

- Process Mapping (4 weeks)
- Document Integration (8 weeks)
- AI Development (6 weeks)
- Testing Training (2 weeks)

Key Results

Processing Efficiency:

- 8.5-day average processing times (vs. 14 days), \$1.8M reduction in manual processing costs, 78% of routine claims processed with minimal human intervention

Quality Improvements:

- 65% reduction in follow-up requests for missing information, improved consistency in initial claim assessments, enhanced adjuster productivity

Business Impact:

- \$2.4M annual value creation, improved customer satisfaction scores, 185% consulting ROI, foundation for expanded claims automation

Technologies:

- Document processing APIs
- natural language processing
- workflow automation
- customer communication systems