



## Service Offering

# AI Invoice Coding Assistant

## Overview

**PREREQUISITE** This agent works alongside **Microsoft Dynamics 365 Invoice Capture** — which must be deployed and operational before the AI Coding Assistant can be implemented. [Learn about Invoice Capture →](#)

An AI agent that works alongside **Microsoft Dynamics 365 Invoice Capture** to help Accounts Payable teams code supplier invoices by suggesting — and optionally auto-populating — general ledger accounts and financial dimensions for invoice header and line items. It learns from historical postings to speed up routine coding while keeping a human in control when confidence is low.

## Key Capabilities

- **Single- and Multi-Line Invoice Support** — Detects line items and suggests coding per line.
- **Historical Pattern Matching** — Uses prior invoices for the same supplier and similar descriptions to propose the most likely account and dimension combinations.
- **Ranked Suggestions** — Presents top options based on frequency and recency of prior use.
- **Bulk & Selective Updates** — Apply coding to all lines or selected lines; quickly reapply if a choice was wrong.
- **Human-in-the-Loop Control** — User selects from options; the assistant explains what it found and why it suggested it.
- **Header Field Assistance** — Proposes header-level fields (e.g., cost center/department, approver flags) when rules or history are unambiguous; otherwise suggests options.
- **Posting-Valid Validation** — Suggestions checked against allowed account-dimension combinations, active/non-suspended values, effective dates, and entity-specific restrictions.

## Typical Workflow

- 1 User opens an invoice in the Dynamics 365 Invoice Capture workbench.
- 2 User requests suggestions; the agent retrieves relevant historical postings and supplier patterns.
- 3 Agent returns a short summary plus recommended account and dimension values for each line (and optionally header fields).
- 4 User accepts suggestions or adjusts them; bulk update can populate multiple lines at once.
- 5 Invoice is saved and proceeds through normal approval and posting; outcomes feed back for continuous improvement.

### BUILT ON

This agent extends **D365 Invoice Capture** — Microsoft's native AP document capture and processing solution.

Invoice Capture must be deployed and operational as a prerequisite.

[D365 Invoice Capture docs →](#)

### WHO IT'S FOR

AP processors, invoice reviewers, and finance operations leaders looking to reduce manual coding effort, improve consistency, and shorten invoice cycle time.

### DATA INPUTS

- Invoice header & line details (supplier, description, amounts)
- Historical invoice postings
- Chart of accounts & financial dimensions master data

### AUDITABILITY

The agent retains what it suggested, what the user chose, and the rationale inputs (e.g., similar prior invoices) for review and compliance.

### D365

Invoice Capture  
native integration

### No Search

required — patterns  
retrieved automatically

### Bulk

multi-line updates  
in a single action

### Audit-Ready

full suggestion &  
decision log retained

## Data, Validation & Controls

The agent validates every suggestion against live finance rules before surfacing it to the user, ensuring only posting-valid coding is ever presented.

### CONFIDENCE-AWARE PROMPTING

- Auto-populates when there is one clear, valid option
- Provides ranked suggestions when multiple options exist and asks the user to choose
- Ranking based on frequency and recency of prior use

### POSTING-VALID SUGGESTIONS

- Validated against allowed account-dimension combinations
- Checks for active and non-suspended values
- Respects effective dates and entity-specific restrictions

## Benefits

### EFFICIENCY

- **Faster coding** — reduces time spent searching prior invoices or memorizing coding patterns
- **Reduced rework** — bulk updates and quick correction loops make it easy to fix mistakes before posting

### QUALITY & SCALE

- **Higher consistency** — standardizes coding decisions using historical precedent and rule validation
- **Scales with volume** — supports a shift from “manual processors” to “exception reviewers” for routine invoices

### CUSTOMER COMMITMENT

- D365 Invoice Capture deployed and operational
- AP team availability for requirements and UAT sessions
- Defined rules for fallback scenarios and new suppliers
- Access to historical invoice postings and ERP master data
- Representative sample invoices for testing and tuning
- Clarity on precedence between vendor defaults, system defaulting logic, and AI suggestions

### Ready to Reduce Manual Coding Effort?

The sooner your AP team builds a foundation with AI-assisted coding, the faster you move from manual processors to exception reviewers — and the more your historical data works for you.

[Contact Avantiico to Get Started](#)

## DEPLOYMENT CONSIDERATIONS

**Prerequisite** — D365 Invoice Capture must be deployed and operational before implementation.

**Integrations** — D365 Invoice Capture workbench UI, ERP/GL for posting rules and master data, data store for historical transactions.

**Performance** — Precomputed “fast lookup” tables (e.g., supplier-to-common-coding summaries) can reduce response time compared to querying raw transaction tables on-demand.

**Security** — Role-based access, least-privilege data retrieval, and tenant/data-bound AI controls for sensitive finance data.

## KEY RISKS & OPEN QUESTIONS

- △ Data quality — incorrect joins or parsing can lead to wrong dimension names/IDs; needs robust testing on real invoices.
- △ New or infrequent suppliers — limited history reduces confidence; requires fallbacks (defaults, rules, or reviewer prompts).
- △ Complex dimensions (e.g., projects) — may require additional NLP matching and stronger guardrails to avoid “guessing.”
- △ Interaction with existing defaulting — define precedence between vendor defaults, system defaulting logic, and AI suggestions to prevent conflicts.

## NEAR-TERM ROADMAP

- Harden posting-valid validation for all suggested combinations.
- Improve suggestion ranking (frequency + recency) and expand header-field auto-population.
- Run QA using a representative set of real invoices (single-line, multi-line, multiple entities/business units).
- Clarify end-to-end automation target: when to run in “background autopilot” vs. require reviewer confirmation.