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Invoice: 2511307.555
Factuurdatum: 30-Nov-2025



FuturaWerk Preventiecoöperatie UA

t.a.v. mevr. L.J. van van Gerven
Adres: Parksingel 44
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Phase 1: Discovery & Architecture (Preparation)

High-level architectural decisions and requirements definition.

	Role	Rate	Hours	Total
Project Scoping & Definition: Analysis of customer requirements, stakeholder interviews, and defining success metrics (KPIs).	<i>Business Analyst</i>	€ 165	4.0	€ 660
System Architecture Design: Designing the Multi-Agent System (MAS) using Google ADK. Defining the "Tiered Self-Correction" Strategy (Regex → LLM → OCR).	<i>AI Architect</i>	€ 250	6.0	€ 1,500
Data Pipeline Strategy: Designing the Universal Invoice Processor logic to handle raw text vs. OCR fallbacks without format assumptions.	<i>Data Architect</i>	€ 225	2.0	€ 450

Phase 2: Core Development (The Build)

Implementation of the Python agents and core logic found in capstone_agents.py and universal_invoice_processor.py

	Role	Rate	Hours	Total
Universal Invoice Processor: Implementation of UniversalInvoiceExtractor, Polars integration, and basic PDF text extraction (PyPDF2/PDFPlumber).	<i>Python Dev</i>	€ 175	5.0	€ 875
Multi-Agent Orchestration: Implementing InvoiceOrchestrator using Google ADK. Setting up async dispatching for HeaderAgent and LineItemAgent.	<i>AI Engineer</i>	€ 215	8.0	€ 1,720
Agent Prompt Engineering: Iterative design of prompts for Header extraction (JSON schema enforcement) and Line Item logic (handling ClientCaseNumbers).	<i>AI Engineer</i>	€ 200	4.0	€ 800
Regex Engine Development: Creating the Shared Regex Tool (InvoiceRegexExtractor) for DRY principles. Implementing extraction for KVK, VAT, and Dates.	<i>Python Dev</i>	€ 175	3.0	€ 525
Business Logic Implementation: Coding ClientCaseMatcher with fuzzy logic (Levenshtein/canonical mapping) to handle I/1 and O/0 OCR/Human errors due to CodeGenerator bug in 2024/2025 for using I/O characters in CCN	<i>Python Dev</i>	€ 175	2.0	€ 350

Phase 3: Integration & Tooling

Connecting external APIs and handling edge cases.

	Role	Rate	Hours	Total
Google Vision OCR Integration: Implementing ocr_tools.py for fallback on image-based PDFs using Google Cloud Vision API.	<i>Cloud Engineer</i>	€ 180	4.0	€ 720
Google Workspace Pipeline: Automation of PDF retrieval from Gmail/Drive (Ingestion pipeline).	<i>Integration Specialist</i>	€ 215	2.0	€ 430
Self-Correction Logic: Developing the specific logic in process_invoice.py that triggers OCR tools only when Header data (KVK/VAT) is missing.	<i>AI Engineer</i>	€ 215	4.0	€ 860

Phase 4: Validation & Delivery

Testing frameworks and User Interface.

	Role	Rate	Hours	Total
Evaluation Framework: Building evaluate_capstone.py using DeepDiff to compare Agent output against Ground Truth datasets.	<i>Data Scientist</i>	€ 190	6.0	€ 1,140
UI Development: Creating the end-user interface for "Human-in-the-loop" review (Accept/Reject/Modify invoices).	<i>Frontend Dev</i>	€ 160	7.0	€ 1,120
Documentation & Code Cleanup: Refactoring to Clean Architecture (Modules), writing README and inline documentation.	<i>Technical Writer</i>	€ 150	3.0	€ 450

Totaal excl. BTW	60.0	€ 11,600.00
BTW Hoog 21%		€ 2,436.00
Total		€ 14,036.00