

! PROBLEM DESCRIPTION

Manual processing of unstructured contact data and complex relationships from JSON files is inefficient and error-prone.

🔗 SOLUTION ARCHITECTURE

A Python-based backend infrastructure integrating a custom-trained GLiNER model fine-tuned on manually annotated email datasets for high-precision entity recognition. The system employs advanced NLP techniques for unstructured data processing and subsequent mapping of complex relationships within a relational structure.

▶ HOW IT IS USED

Users upload a JSON file with emails to extract. The model extracts the contacts and a visualization of the relationship links is displayed on the page. A copy of this data will be downloadable from the email sent.

🛡️ SOLUTION FEATURES



Automated JSON extraction



Email integration



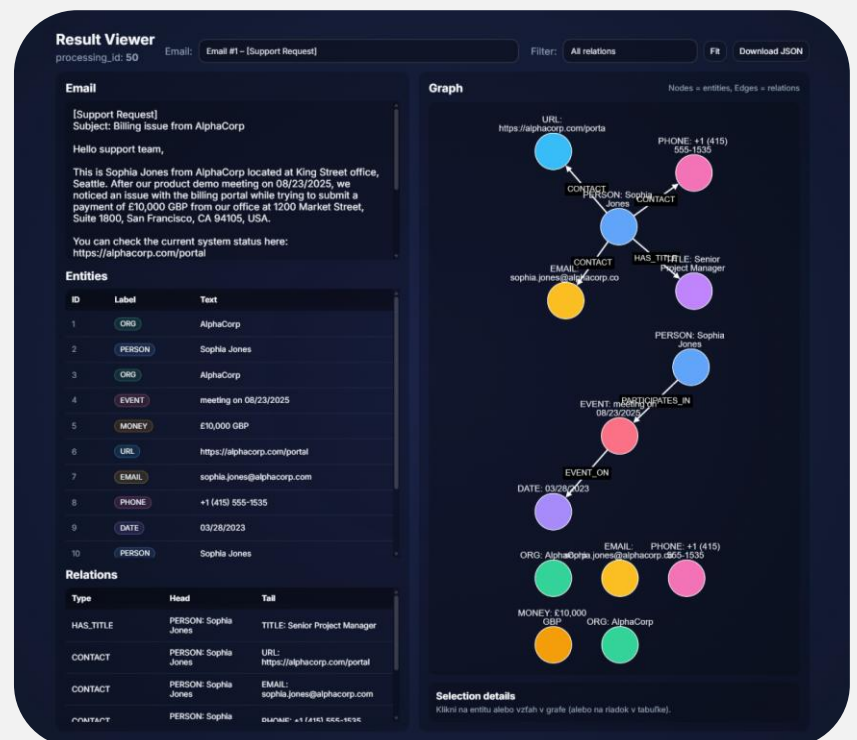
Interactive network visualization



Intelligent relationship identification



Domain-specific entity extraction
PERSON, ORG, EMAIL, PHONE,
ORG_ADDRESS, TITLE, DATE, EVENT,
URL, SOCIAL_URL



SOLUTION EVALUATION ✓

The system performs AI-based extraction of domain-specific entities including persons, organizations, contact details, events, and addresses, followed by automatic identification of relationships between them.

