

Final version of the ETF AI Virtual Assistant tool and its User Manual

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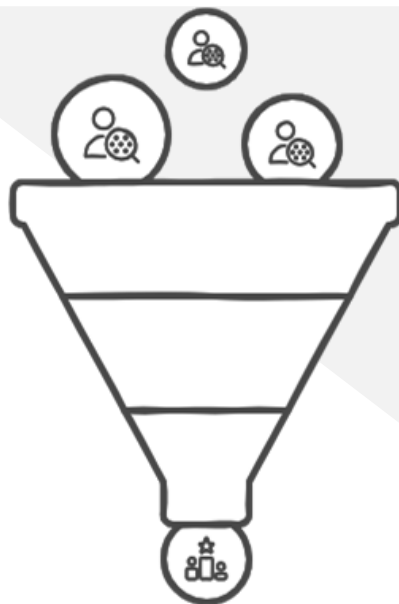
Outline

- Overview of the system
- The 4-step process
- The sources
- Overview of the architecture
- Using models and connectors
- Demonstration of tool

Overview of the system

Literature review system

- Based on source documents (articles, reports, ...)
- User mediated
- Automatically generated review



Document Retrieval

Gathering relevant documents from the Internet



Researcher Interaction

Engaging with the researcher for feedback



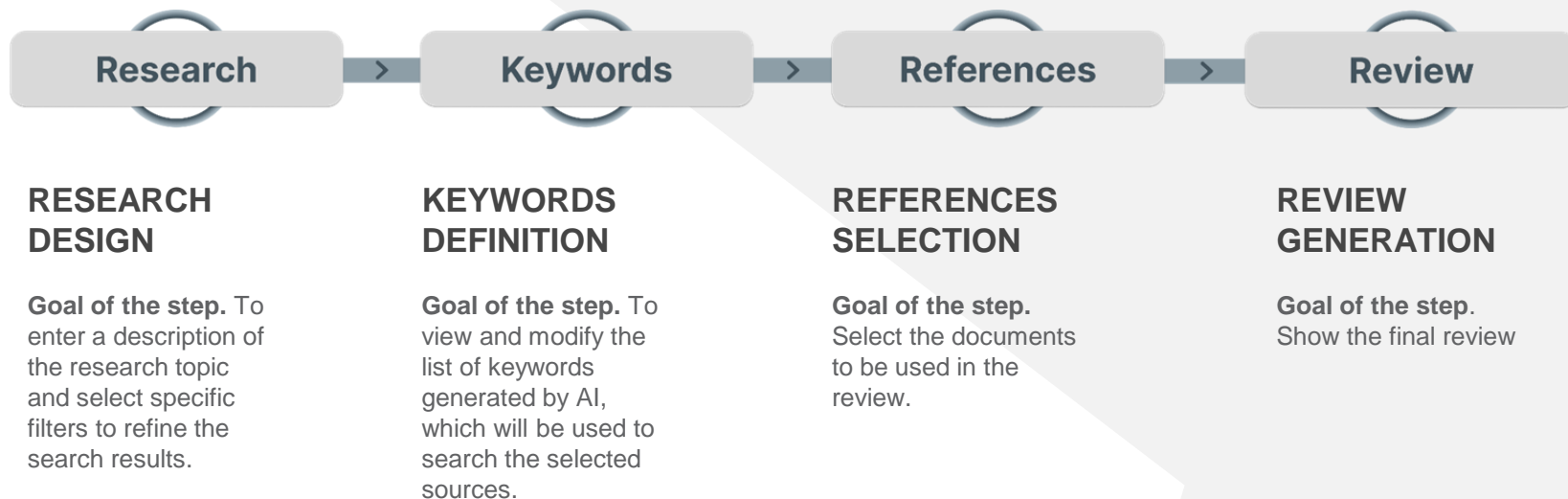
Review Generation

Creating a comprehensive review

Design

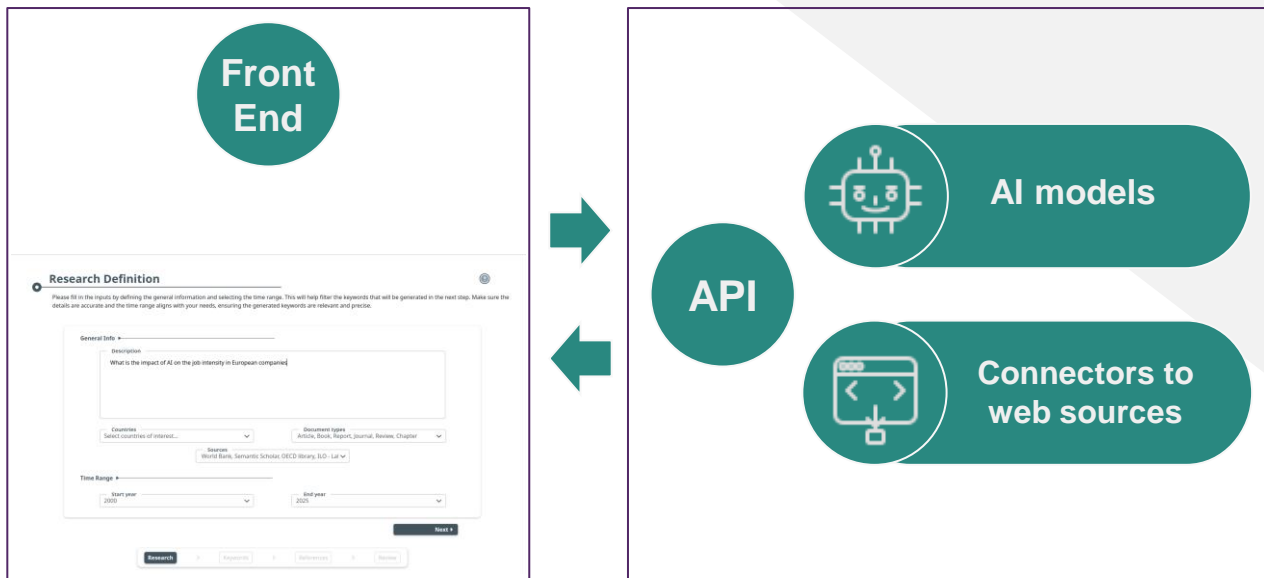
Approach	Interaction Style	Key Strength	Example Apps
Chatbots	Conversational (Text/Voice)	Natural Interaction & Accessibility	ChatGPT, Google Bard, Meta AI, Intercom, Replika
Recommendation Engine	Passive, Suggestive	Personalization	Netflix, Spotify, Amazon, TikTok
Decision Support System (DSS)	Visual, Form-based	Informed Decision-Making	IBM Watson Health, Mint, Tableau with predictive analytics
Augmented UX / Embedded AI Assistant	Contextual, Subtle	Seamless Help	Google Docs (Smart Compose), Grammarly, Notion AI
Creative Tool / Co-Creator	Collaborative	Productivity Boost	GitHub Copilot, Adobe Firefly, Canva Magic Tools, RunwayML
Search & Discovery Interface	Exploratory	Information Discovery	Perplexity.ai, Google Lens, WolframAlpha
Autonomous Agent / Workflow Executor	Goal-Oriented	Automation	Auto-GPT, Zapier + AI plugins, Reclaim.ai, Salesforce Einstein Bots
AI Middleware (Invisible AI)	Hidden	System Intelligence	Stripe Radar (fraud detection), Tesla Autopilot backend

The 4-step process



The system architecture

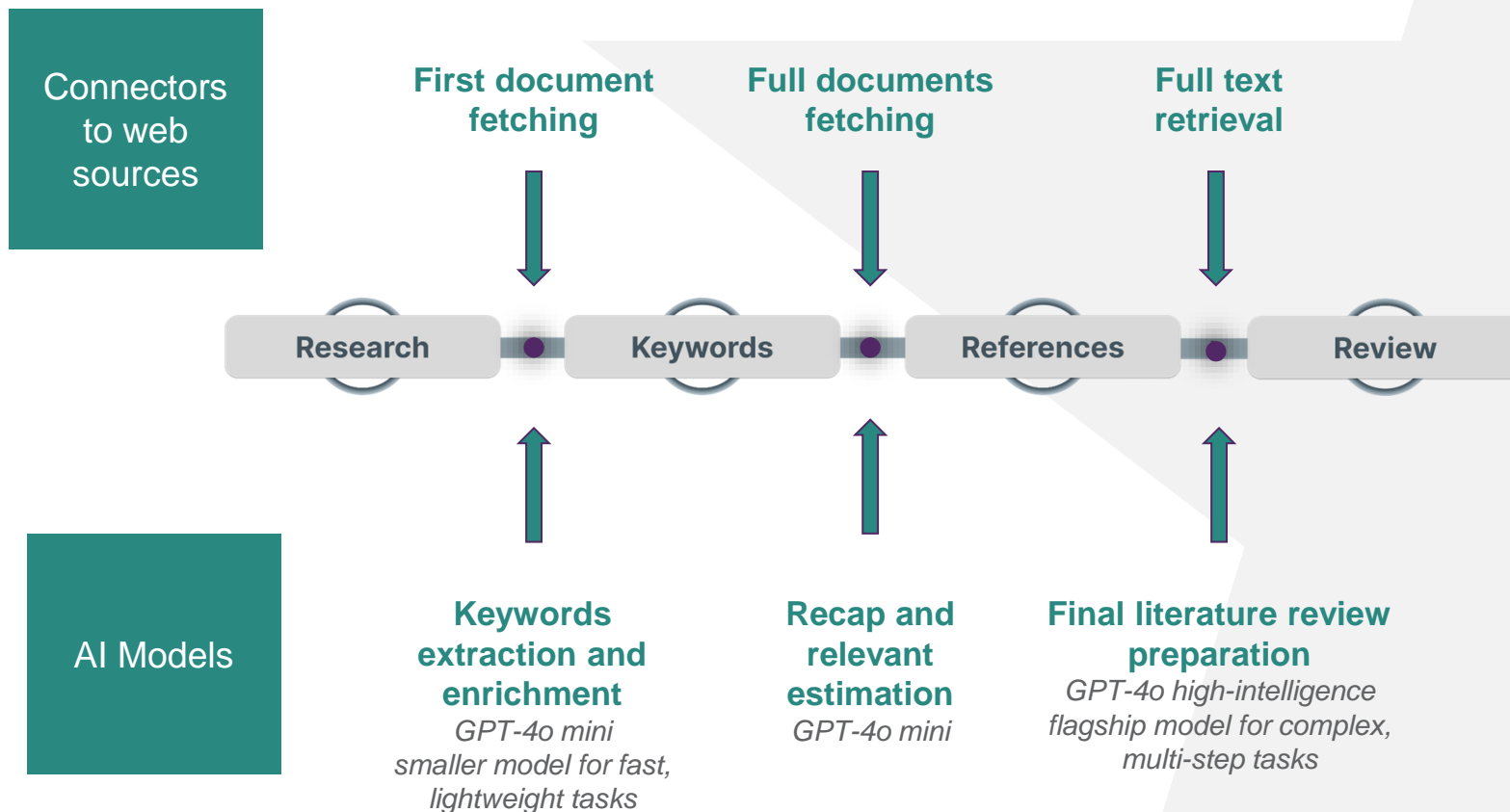
- Modular design integrates a user-friendly front-end with powerful backend AI models.
- API-driven architecture ensures seamless reuse and integration within the ETF ecosystem.
- Cloud infrastructure (Azure) provides scalability, reliability, and easy maintenance.
- Flexible connectors to web sources allow continuous enhancements and expanded capabilities.
- Strategic design enables agile adaptation to evolving research and analytical needs.



The sources

CEDEFOP	Vocational education & training (VET) in Europe	cedefop.europa.eu
ETF	Education, training, and labor market policies	etf.europa.eu
ILO – Labordoc	Labor, employment, social protection	labordoc.ilo.org
JRC	Scientific and technical support for EU policy	joint-research-centre.ec.europa.eu
OECD iLibrary	Economic, social, and environmental policy research	oecd-ilibrary.org
OpenAlex	Catalogue of scientific papers, authors and institutions accessible in open access mode	openalex.org
Publications Office of EU	Official EU publications and open government data	op.europa.eu
Semantic Scholar	Cross-disciplinary academic research engine	semantic scholar.org
UNESCO – UNESDOC	Education, science, culture, communication	unesdoc.unesco.org
UNESCO – UNEVOC	Technical and vocational education and training (TVET)	unevoc.unesco.org
World Bank	Global development and poverty alleviation	openknowledge.worldbank.org

Using models and connectors



Demonstration of tool



Welcome to ETF AI Virtual Assistant!

Log In →

Research Definition



Please fill in the inputs by defining the general information and selecting the time range. This will help filter the keywords that will be generated in the next step. Make sure the details are accurate and the time range aligns with your needs, ensuring the generated keywords are relevant and precise.

General Info

Description

What is the impact of AI on the job intensity in European companies

Countries

Select countries of interest...



Document types

Article, Book, Report, Journal, Review, Chapter



Sources

World Bank, Semantic Scholar, OECD library, ILO - Lal



Time Range

Start year

2000



End year

2025



Next

Research



Keywords



References



Review


































Keywords Definition

Adjust the selection of keywords to filter the references generated in the next step. You can refine the keywords by choosing those most relevant to your needs. If desired, use the provided input field to create and add a new keyword to further tailor the results.

Keywords Selections ▶

New keyword
Insert new keyword... +

  Artificial Intelligence 	  job intensity 
  European companies 	  labor market 
  employment trends 	  automation impact 
  workforce dynamics 	  productivity changes 
  economic implications 	  technological adoption 

 Select All Deselect All

[◀ Prev](#)[Next ▶](#)[Research](#)

<

Keywords

>

[References](#)

>

[Review](#)

References Definition

Adjust the selection of references to filter the final generated file. Choose the references that best match your needs. If necessary, use the provided input field to add a new reference, further customizing the final output to ensure it aligns with your specific requirements.

Sources

data 23 / 77

Europe 4.0: Addressing the Digital Dilemma

Europe 4.0: Addressing the Digital Dilemma explores the economics of digital technologies, identifying new drivers of change and their varying impacts across countries. It highlights the strengths of European firms in operational technologies, which enhance competitiveness but exacerbate disparities between large and small firms. Conversely, Europe lags in transactional technologies that promote market inclusion. The COVID-19 pandemic underscores the urgency of addressing these challenges...

Skills and the Labor Market in a New Era : Managing the Impacts of Population Aging and Technological Change in Uruguay

Uruguay confronts significant challenges from population aging and technological change, necessitating well-crafted public policies. As automation replaces routine tasks, labor demand declines, emphasizing the need for workers to acquire high-order cognitive and socioemotional skills. Labor regulations must adapt to facilitate innovation while ensuring social protection. The report outlines demographic trends, a conceptual framework, the current Uruguayan context, and policy recommendations across...

The jobs of tomorrow : technology, productivity, and prosperity in Latin America and the Caribbean

The adoption of digital technologies enhances long-term growth but presents complex challenges for low-skilled workers. While there are fears of job losses due to automation, research indicates that productivity gains can create more jobs for low-skilled workers when output increases. Policies that foster competition and skill development can ensure positive outcomes. Cross-country studies reveal that digital technologies also lower export costs and improve job matching, contributing to...

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Review

Review

This document is the final result of all the applied filters, keyword selections, and reference selections. It reflects the cumulative choices made throughout the process, ensuring that the content is precisely tailored to your specifications. Each element in this document has been carefully curated based on the inputs and adjustments you provided, making it a highly customized and targeted output.

Filters Selections

Introduction

The advent of Artificial Intelligence (AI) is heralding a transformative era in the global economy, with profound implications for employment patterns across various sectors. European enterprises, in particular, stand at the forefront of this technological revolution, as they grapple with the dual challenges and opportunities presented by AI integration. The impact of AI on job intensity, defined as the magnitude of labour demand within organisations, is a critical area of inquiry that necessitates a comprehensive understanding of both current and future employment dynamics. As businesses increasingly adopt AI technologies, there is a pressing need to assess how these innovations are reshaping the labour market landscape, influencing job creation, and redefining skill requirements. This literature review seeks to illuminate the complexities surrounding AI's impact on job intensity within European companies, drawing upon a diverse range of scholarly sources and empirical data. By examining the intersection of AI advancements and employment trends, the review aims to provide a nuanced perspective on how digitalisation is driving volatility and change in the labour market. The significance of this research lies in its potential to inform policymakers, industry leaders, and academic scholars about the strategic imperatives necessary to navigate the evolving demands of the digital economy. Amidst a backdrop of rapid technological innovation, understanding the trajectories of job demand and supply is paramount. This review will explore key themes such as the challenges of recruiting and retaining ICT specialists, the role of AI in offshoring and reshoring dynamics, and the implications of AI-driven automation on job functions. Furthermore, it will address the broader societal and economic implications of these trends, offering insights into potential policy interventions and workforce development strategies. By setting the stage for a thorough examination of AI's impact on job intensity, this introduction underscores the critical importance of this research question within the context of a globalised and digitalised world. The findings of this review are poised to contribute significantly to the discourse on AI and employment, offering valuable guidance for shaping the future of work in Europe and beyond.

Q\A

Thank you!