



# Vito Spinelli

Knowledge and data specialist

London, UK

Further information and portfolio at  
[www.vitospinelli.com](http://www.vitospinelli.com)

## CONTACT DETAILS

Available at:  
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## PROFILE

Multilingual knowledge and data specialist with skills spanning from ontology design to data extraction and manipulation leveraging Python libraries, Large Language Models (LLMs), AI agents and databases (SQL, RDF and Neo4j). Excels at coordinating teamwork and providing evidence-based intelligence to senior management and clients.

## SKILLS

- o Agile Project Management
- o LLMs prompt engineering and structured usage in Python
- o Retrieval Augmented Generation
- o Langchain
- o Langgraph
- o Embeddings/ChromaDB
- o Development of recommender systems
- o Data analysis and visualisation (Python, Pandas, Seaborn)
- o Database management (SQL, RDF/SPARQL)
- o Taxonomy/Ontology design (OWL, RDF, SKOS)



## WORK EXPERIENCE

### Senior Ontologist – Faethm by Pearson

07/2023-Present

- *Develops and maintains the skill ontology and its semantic structure*
- *Plans the ontology development to meet different business requirements and support service interoperability*
- *Creates and documents processes and workflows for the updating and enrichment of the ontology, while increasing efficiency through process automation (jupyter notebooks, Python scripts) and knowledge management (Confluence)*
- *Defines and enforces semantic and syntactic rules*
- *Models the terminology using evidence-based principles that take into account the nuances and differences of different domains*
- *Assesses quality of ML models and provides input for model re-training and fine-tuning*
- *Collaborates with different teams and internal clients to ensure data alignment*
- *Uses LLMs and integrates them in existing and new processes and workflows (including via Python scripts and AI agents)*

### Ontologist – Faethm by Pearson

10/01/2022-07/2023

- *Developed and validated ontology mappings/crosswalks*
- *Designed and formalised ontology data model based on both SKOS/RDF standards and in neo4j format*
- *Managed and maintained ontology metadata, building connections between data assets to fully leverage data value*
- *Lead the development of a knowledge structure (hierarchy) to facilitate access to and use of ~8000 entities (skills)*
- *Advised on ontology standards implementation*

- Taxonomy/ontology management tools (Protégé, VocBench)
- NLP (Beautiful Soup, Spacy, NLTK, etc.)
- Stakeholder Relations
- Effective communication
- Chat bot design and development (IBM Watson Assistant)
- User Experience Design
- Excel Power Query

## LANGUAGES

English ★★★★★

Spanish ★★★★★

French ★★★★★

Italian ★★★★★

## CERTIFICATIONS

RDF and SPARQL Essentials  
Udemy

Databases and SQL for Data Science with Python  
IBM on Coursera

- Contributed to the strategic ontology development and maintenance

## Consultant – Inter-American Development Bank – Washington DC

01/04/2019-15/12/2021

- Leads the externalization of the online courses' configuration and implementation
- Advises on the courses evaluation and reports on the courses performance
- Creates checklists and task lists to formalize and standardize the business process and ensure quality control
- Trains on the use of the Edx platform (using Shell and Publisher) for creating and updating online courses editions
- Analyzes data on users' behavior and integrates the findings in the change management process
- Designs, implements, and maintains the first virtual assistant (chat bot) of the IDBx programme

## Project manager - Everis – Brussels

11/10/2017–27/03/2019

Project manager: ESCO - 'European Classification of Skills Competences, Occupations and Qualifications'

- Developed knowledge management and training plan for 5-member team
- Designed the business processes to collect users' feedback EU-wide, enabling the continuous and consistent update of ESCO
- Coordinated the development and provided quality assurance for communication and training materials (e.g. high-level technical training material allowing 28 EU Member States to comply with EU legal obligations)
- Followed-up and monitored the performance of ESCO and supports the development of a KPI framework

## Public Sector Solutions Consultant - Everis – Brussels

04/01/2016–10/10/2017

Consultant: ESCO - 'European Classification of Skills Competences, Occupations and Qualifications'

- Coordinated the publication of the ESCO classification in 27 languages
- Prepared, executed and evaluated 6 high-level expert meetings that removed the roadblocks to the legislative process for adopting ESCO
- Provided training to team members on the use of the Wiki Markup Language, allowing a quicker updating of web articles on the ESCO portal
- Provided a presentation to a high-level expert group on how semantic interoperability can support the innovation of employment services

## Taxonomy Consultant - TenForce – Brussels

09/07/2012–31/12/2015

Statistics for Data Science with  
Python

*IBM on Coursera*

Python for Data Science and AI

*IBM on Coursera*

Applying the QM Rubric

*Quality Matters*

Instructional Design Models

*University of Maryland*

Foundations of User Experience

Design

*Google on Coursera*

Data Scientists Toolbox

*John Hopkins University*

In-house consultant to the European Commission, DG Employment, Social  
Affairs and Inclusion

- *Provided support with the design of the data model and the methodology development for the ESCO classification*
- *Collaborated in the development of the ESCO data model and versioning strategy*
- *Trained 11 sectoral expert groups of 10 to 20 members each on the ESCO data model and the development methodology*
- *Coordinated and lead the knowledge and information collection from more than 1000 sectoral experts across Europe*
- *Wrote training material for the classification contributors*
- *Coordinated and monitored the quality and technical compliance of 2500 occupations and 13000 skills/competences and their metadata*

**Policy Advisor - Eur. Vocational Training Assn. – Brussels**

10/2009–02/2011

**Librarian - Polo Scientifico Didattico di Forlì – Forlì**

02/2008–05/2008



## **EDUCATION**

- MS in Public Policy-University of Bristol-Bristol – UK

28/09/2009–15/09/2010

- MA in International Studies-Uni. Of Bologna, Forlì - Italy

09/2006–03/2009

- BA in International Studies Uni. Of Bologna, Forlì - Italy

09/2002–06/2006