

# David Montaner

MORE THAN 20 YEARS PLAYING WITH DATA

St Albans - AL3 - U.K.

☎ 0775 497 22 35 | ✉ david.montaner@gmail.com | 🏠 www.dmontaner.com | 📺 dmontaner | 📱 dmontaner | 🌐 dmontaner

## Recent Experience

### Lead ML/AI Engineer

KORE LABS

- Created Agents that automatize the governance of financial taxonomies and ontologies. Knowledge Graphs and scoring systems.
- RAG-graph systems with Langgraph and PGvector, deployed on GCP. Converted REST APIs into MCP servers for agentic access.

London - U.K.

2024 - Present

### Senior AI Consultant

PUBLICIS SAPIENT - CONSULTING FOR DEUTSCHE BANK

- Using Large Language Models, Vector Embeddings and Agents to extract and interpret financial information from emails or news.
- Deploying RAG systems on the Google Cloud Platform (GCP). Using OpenAI Assistants and Google PaLM 2 models to guide end users.

London - U.K.

2023 - 2024

### Chief Data Scientist

INSIG AI PLC

- Natural Language Processing of financial news and ESG documents. Machine Learning applied to Investment Portfolio Management.
- Managed the Data Science team and coordinated with the Operations and Data Acquisition departments. Developing in AWS.

London - U.K.

2018 - 2023

### Senior Data Scientist

BARCLAYS - ADVANCED DATA SOLUTIONS TEAM

- Building up recommend systems and customer segmentation analysis, enhancing data business value for marketing.
- Supervising a team of 3. I implement machine learning pipelines for risk evaluation on millions of clients.

London - U.K.

2017 - 2018

### Data Scientist

GENOMICS ENGLAND LTD. - BIOINFORMATICS DEPARTMENT

- Modeling clinical and genomic data: 100K individuals, millions of variables (genetic variants).
- Data visualization, automatic report writing, data scraping from SQL, MongoDB, Spark, web services and web pages.

London - U.K.

2015 - 2017

### Founder and Head of Data Science

GENOMETRA S.L.

- I co-founded the company and supervised a team of 4. We developed machine learning software for diagnosis and research.
- Developed several R & Python packages, web tools and distributed pipelines. Statistical consultancy.

Valencia - Spain

2010 - 2015

### Head of the Biostatistics Unit

PRINCIPE FELIPE RESEARCH CENTER (CIPF) - COMPUTATIONAL GENOMICS DEPARTMENT

- Written **+50 scientific publications**. Presented and organized +30 congresses and workshops. Supervised staff and students.

Valencia - Spain

2005 - 2010

## Education

### PhD in Bioinformatics and Functional Genomics

UNIVERSITAT DE VALENCIA - BIOTECHNOLOGY

- Multidimensional Logistic Regression and other Machine Learning methods for the analysis complex biological data.

Valencia - Spain

2009 - 2013

### MSc in Statistics with Applications in Medicine (Erasmus student)

UNIVERSITY OF SOUTHAMPTON - STATISTICS DEPARTMENT / UNIVERSIDAD COMPLUTENSE DE MADRID

- Experimental design, stratification, sample size calculation, demographic analysis, clinical trials, spatial analysis.

Southampton - U.K.

2001 - 2002

### Degree in Mathematics

UNIVERSIDAD COMPLUTENSE DE MADRID

- Statistics and Operations Research specialty.

Madrid - Spain

1995 - 2001

## Skills

<b>Software</b>	Python, R, Bash, Linux, Git, GitHub, Docker, Terraform, Pytest, Poetry, Tox, Jenkins, Jupyter Notebooks, Emacs-Lisp,
<b>AI, NLP and LLMs</b>	LangChain, LangGraph, Pydantic AI, FastMCP, Ollama, LlamaIndex, CrewAI, Transformers-HuggingFace, Spacy, NLTK,
<b>LLM/API experience</b>	Gemini, OpenAI GPT models, Claude, Llama, DeepSeek-R1, Qwen / Gemini and OpenAI embeddings, sentence-transformers
<b>Databases</b>	PGvector, Faiss, Vertex AI Search ; BIGQUERY, PostgreSQL ; MongoDB, DynamoDB, Firebase ; Neo4j,
<b>Stats &amp; ML</b>	Numpy, Pandas, Polars, SciPy, SciKit Learn, XGBoost, PyTorch, TensorFlow, Pyspark, Dask, Newtworkx,
<b>Visuals</b>	Matplotlib, Seaborn, Plotly, Pyvis, Cytoscape, R ggplot2, Looker,
<b>Cloud</b>	GCP (Vertex Ai, Model Garden, BigQuery, Cloud Run), AWS (SageMaker, Bedrock), boto3, Mongo Atlas, Azure ML,
<b>Web</b>	Plotly Dash, Flask, FastAPI, Streamlit, Django, Swagger, R Shiny, Unicorn, NGINX, Beautiful Soup, Selenium,