David **Montaner**

MORE THAN 20 YEARS PLAYING WITH DATA

St Albans - AL3 - U.K.

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Recent Experience

Lead ML/AI Engineer
London - U.K.

KORE LABS
2024 - Present

- 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.

Senior AI Consultant
London - U.K.

PUBLICIS SAPIENT - CONSULTING FOR **DEUTSCHE BANK**
2023 - 2024

- 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.

Chief Data Scientist
London - U.K.

INSIG AI PLC
2018 - 2023

- 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.

Senior Data Scientist
London - U.K.

BARCLAYS - ADVANCED DATA SOLUTIONS TEAM
2017 - 2018

- 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.

Data Scientist
London - U.K.

GENOMICS ENGLAND LTD. - BIOINFORMATICS DEPARTMENT
2015 - 2017

- 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.

Founder and Head of Data Science
Valencia - Spain

GENOMETRA S.L.
2010 - 2015

- 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.

Head of the Biostatistics Unit
Valencia - Spain

PRINCIPE FELIPE RESEARCH CENTER (CIPF) - COMPUTATIONAL GENOMICS DEPARTMENT
2005 - 2010

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

Education

PhD in Bioinformatics and Functional Genomics
Valencia - Spain

UNIVERSITAT DE VALENCIA - BIOTECHNOLOGY
2009 - 2013

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

MSc in Statistics with Applications in Medicine (Erasmus student)
Southampton - U.K.

UNIVERSITY OF SOUTHAMPTON - STATISTICS DEPARTMENT / UNIVERSIDAD COMPLUTENSE DE MADRID
2001 - 2002

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

Degree in Mathematics
Madrid - Spain

UNIVERSIDAD COMPLUTENSE DE MADRID
1995 - 2001

- Statistics and Operations Research specialty.

Skills

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