

# David Montaner

MORE THAN 20 YEARS PLAYING WITH DATA

St Albans - AL3 - U.K.

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## Recent Experience

### Senior AI Consultant

London - U.K.

PUBLICIS SAPIENT - CONSULTING FOR DEUTSCHE BANK

2023 - Present

- 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 to guide end users of DB products.

### 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.

### Part Time Lecturer

Valencia - Spain

UNIVERSITY OF VALENCIA - MATHEMATICS AND COMPUTER SCIENCE DEPARTMENTS

2009 - 2015

- Teaching databases, R, Python and Bash programming, statistics and probability to undergrad and MSc students.

### 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

<b>Software</b>	Python, R, Bash, Linux, Git, GitHub, Docker, Terraform, Pytest, Tox, Jenkins, Jupyter Notebooks, Emacs-Lisp,
<b>Data</b>	Vector DBs (Pinecone, ChromaDB, Google's Vector Search) SQL (BIGQUERY, PostgreSQL), NoSQL(MongoDB, DynamoDB),
<b>Stats &amp; ML</b>	Numpy, Pandas, SciPy, SciKit Learn, XGBoost, PyTorch, TensorFlow, Pyspark, Dask,
<b>Visuals</b>	Matplotlib, Seaborn, Plotly, Pyvis, Cytoscape, R ggplot2, Looker,
<b>NLP and LLMs</b>	LangChain, OpenAI API, Google PaLM 2 and Gemini, Transformers-HuggingFace, SentenceTransformers, Spacy, NLTL,
<b>Cloud</b>	GCP (Vertex Ai, BigQuery Cloud Run), AWS (SageMaker, S3, Lambda), boto3, Mongo Atlas, Azure Machine Learning,
<b>Web</b>	Plotly Dash, Flask, Flask-RESTX, FastAPI, Django, Swagger, R Shiny, Unicorn, NGINX, Beautiful Soup, Selenium,