David **Montaner**

MORE THAN 20 YEARS PLAYING WITH DATA

St Albans - AL3 - U.K.

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Recent Experience

Consultant / Data Scientist
London - U.K.

PS AI LABS / CONSULTING FOR DEUTSCHE BANK
2023 - Present

- Using Large Language Models, vector embeddings and Agents to extract and interpret financial entities from text and news.
- Deploying production systems on the Google Cloud Platform (GCP): BIGQUERY, Vertex AI, Cloud Functions Looker.

Chief Data Scientist
London - U.K.

INSIG AI PLC
2018 - 2023

- Organize the Data Analytics / Data Science team and coordinate with the Operations and Data Acquisition departments.
- Machine Learning applied to Investment Portfolio Management. Natural Language Processing of financial news and ESG scores.

Senior Data Scientist
London - U.K.

BARCLAYS - ADVANCED DATA SOLUTIONS TEAM
2017 - 2018

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

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

Software	Python, R, Bash, Linux, Git, GitHub, Docker, Pytest, Tox, Jenkins, Jupyter Notebooks, Emacs-Lisp, Haskell, regexp,
Data	Vector Databases (Pinecone, ChromaDB, Google's Vector Search) SQL (BIGQUERY, PostgreSQL), NoSQL(MongoDB, DynamoDB, Elasticsearch),
Stats & ML	Numpy, Pandas, SciPy, SciKit Learn, PyTorch, Pyspark, Dask,
Visuals	Matplotlib, Seaborn, Plotly, Pyvis, Cytoscape, R ggplot2, Looker,
NLP and LLMs	LangChain, OpenAI API, Google PaLM 2, Transformers-HuggingFace, SentenceTransformers, Spacy, NLTL,
Cloud	GCP (BigQuery, Vertex Ai, cloud functions), AWS (S3, Lambda, SageMaker, CloudFormation), boto3, Mongo Atlas,
Web	Plotly Dash, Flask, Flask-RESTX, FastAPI, Swagger, R Shiny, Gunicorn, NGINX, Beautiful Soup, Requests