



Sergio Córdoba, MSc.

Data | AI | Analytics
From data to business assets

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(native) (conversation) (basic)

About me...

With 10 years of experience around AI and data science, I have worked in projects focused on supporting and improving business processes.

I have worked in multidisciplinary and multicultural teams, in several sectors, using a wide range of technologies and mathematical methods, and employing agile or kanban methodologies.

From raw data to start up in PROduction, including results presentations to business users, I am proficient in the different stages of these types of analytics and machine learning projects (input preparation, modeling, deploy and monitoring).

Academic background

Postdegree in "Advanced methods in applied statistic" (UNED, Spain, 2017)

MSc. in "Mathematical modeling and research, statistics and computing" (University of Zaragoza, Spain, 2015)

Postdegree in "Microsystems and smart instrumentation" (University of Zaragoza, Spain, 2013)

MSc. in Physics (spanish 5-years-degree. University of Zaragoza, Spain, 2013)

Workshops and courses

#tensorflow #datarobot
#IBMWatson #neuralnetworks
#hadoop #spark #agile #linux
#simulation
#computationalscience
#softwarearchitecture

Experience

2018 – 2025 - Senior data scientist at Vueling Airlines / KnowMadMood, AI and Advanced Analytics dept, Zaragoza (Spain)

Remote working. tech-lead role. End-to-end data flows building, ETL, data exploration and analysis (EDA), modeling, machine learning, deploy, model monitoring and maintenance, business presentation. Differents business cases, modeling approaches, technologies and projects.

#classification #regression #reporting #ETL #KPIs
#dataanalysis #EDA #businesspresentations #jira #git #agile

core on #AWS #AWSRedshift #AWSS3 #SQL #python #docker #airflow
also, #Azure #GCP , depends on each project

- NPS-drivers (2024-2025)

#lightgbm #SHAP

- company documentation RAGs, generativeAI (2024-2025)

#generativeAI #RAG #AWSBedrock

#Azure #AzureSearch #AzureBlob

- Web activity, GoogleAnalytics data (2023)

#GCP #GoogleAnalytics #GA4 #BigQuery #CloudStorage

- Customers datamart (2023)

#AWSLambda #parquet

- Segmentations (2022-2023)

#kmeans #TSNE #PCA #pagerank #PLS #kprototypes #xgboost

- Ancillaries recommender (2021)

#recommender #xgboost #AWSLambda #AWSSagemaker #AWSApiGetway

#python #ROC

- Baggage pricing optimization (2020)

#RandomForest #AffinityPropagation #ROC #R

#datarobot #xgboost #ONNX #python #gradientdescent #regression

#AB-testing

- Forecasting (2019)

#DemandCurve #R #sparkR #sparkSQL #linux #bash #hive #spark

#hadoop #hdfs #parquet #regression

- Anomaly-detection (2018)

#DBSCAN #knn #SVM #PCA #LIME #ROC #R #linux #bash #python #flask

#mlflow #hive #spark #hadoop #hdfs #parquet

2018 - 2021 - PhD courses at UNED, Intelligent Systems program, Madrid (Spain)

Research and courses around. Algebraic treatments to compound vector representations of text fragments from word embeddings

#R #python #SemanticVectorRepresentation #WordEmbeddings
#SemanticCompositionality #VectorAlgebra #nltk #BERT #Word2Vec
#Glove

2016 - 2018 - Data scientist at NTT Data (everis), AI dept., Zaragoza (Spain)

- Ontologies and graphs data bases
- Trends detection
- Information Retrieval
- Semantic searcher

#java #R #Solr #elasticSearch #kibana #web-scraping #RDF #OWL
#SparQL #graphDB #virtuoso #ontologies #pentaho #MySQL #OpenNLP
#Freeling #Tinkerpop #NLP

2016, Aug - Nov - BI Junior Consultant at Banco Sabadell / Innova TSN, Commercial Intelligence dept., Sant Cugat del Vallès (Spain)

Junior data scientist at Banco Sabadell Headquarter.

#GBM #RandomForest #Regression #R #SAS #SQL #ETL #Microstrategy
#marketingcampaigns #KPIs #SASmacros #ProcessesAutomation

2015 - 2016 - Research collaborator at INA (Nanoscience Institute of Aragon), Universidad de Zaragoza (Spain)

Analysis, implementation and tests of scientific tool for inter-atomic distances estimation from high-resolution micrographs (TEM).

- 2016, Research collaborator <http://nanomath2016.sciencesconf.org/>

- 2015, Msc work-end scholarship <https://deposita.unizar.es/record/24069>

#R #C #C++ #DigitalMicrograph #regression #mixtureGaussianModel
#LevenbergMarquardt #GradientDescent #imageProcessing #imageJ
#Nanoscience #TEM