



MIGUEL ESPADA

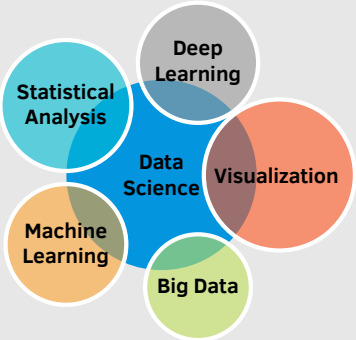
Data Scientist

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Skills Overview



Programming

Python • SQL

SAS • PowerBI • Tableau

Scala • AWS • R

Gephi • Matlab • VBA • \LaTeX

Education

- 2019 - Now

M.Sc., Data Science and Big Data

U-TAD, Spain
- Machine Learning (SVM, Decision Tree, Random Forest, Naive Bayes,K-means, Logistic Regression, Dendrograms,..)
 - Deep Learning (Neural Networks, MLP, CNN , RNN , NLP , Image Processing, ..)
 - Big Data (Spark, Hadoop, Cloud: AWS, Azure, ..)
 - Visualization (PowerBI, Tableau, Kibana, seaborn, matplotlib, plotly, ..)
- 2017 - 2019

M.S., Business Consultory

ICADE- ICAI, Spain
- 2016 - 2017

MSc., Theoretical Physics (8.0)

UAM - IFT CSIC, Spain
- 2012 - 2016

Bachelor in Physics (7.8)

Universidad Complutense de Madrid, Spain

Experience

- Oct 2017 - Now

Data Scientist

Management Solutions
- Ful development of a predictive model (**admission score model**) for a retail portfolio:
 - Data preparation:** EDA, Data cleansing , Feature engineering , ...
 - Univariate Analysis:** Skewness, Kurtosis, Outliers, Box plots, Variance, Herfindahl Index, ..
 - Bivariate Analysis:** WOE, IV , ANOVA , Correlation, Clustering , ...
 - Model development:** Stepwise Logistic Regression, AGB/KGB models, Reject Inference, Score card calibration ,...
 - Model validation:** GINI, KS, accuracy, PSI, AUROC , ...
 - Statistical model construction for Credit Risk Quantification:
 - PD (Probability of Default): Lifetime, Forward Looking, SICR,..
 - LGD(Loss Given Default): segmentation, long run, ELBE, maturity period,..
 - EAD(Exposure at Default): CCFs, On-Balance, Off-Balance..
 - Implementation of methodological changes due to IRB repair programme (new default and new EBA guidelines) on Credit Risk Models.
 - Data model construction with all the required estimation fields: Definition (UTPs, probation period..) and implementation.
 - Capital computation engine: Implementation of the motor, input/output validation and impact analysis of the parameter re-estimations.
 - Validation and audit support: Review of the raised issues, development of responses and monitoring of recommendations.
 - Reporting and documentation: Improvements and evolutes for the current reporting process.

Publications

Miguel Espada, Rafael L. Delgado ,Antonio Dobado ,Felipe J. Llanes-Estrada, and Iván León Merino, “Collider production of electroweak resonances from $\gamma\gamma$ states” J. High Energ. Phys. (2018) 2018: 10.