Benoît Paris





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Projects & Education

Explicable.AI. 2019

Intuitive exploratory environment based on the knowledge contained within a machine learning model

Currently being developed https://explicable.ai

Explainable Machine Learning Challenge, FICO-Google.

Oct 2018

- o Improved standard RufeFit algorithm to select shorter rules
- Discovered a bug in a Python implementation of RuleFit and patched it
 Tech: Scikit-Learn, Python, t-SNE, Lasso, Jupyter

https://github.com/benoitparis/explainable-challenge

MSc Engineering, *Ecole Centrale de Lille*, (Leading Engineering School in France, PEng level).

Computer science & e-commerce

Experience

Machine Learning Engineer, Paris, France.

2017-Present

Independent Contractor

PSA, Direction Marketing Citroën/DS

- Implemented treeinterpreter (precursor to Tree SHAP) for Spark/Scala. In production: currently helps sales teams customize their communication with qualified leads, enhancing their conversion rate by up to 51% in some cases. Open Source: https://github.com/benoitparis/InterpretableRandomForest
- Successfully designed, built and operated a predictive marketing pipeline, complete with performance metrics and an application to display the predictions

Data Management Engineer, Clémence Consulting, Paris, **2012–Present** France.

PSA, Direction Marketing Citroën/DS

PSA, PSA Retail - VO

La Ligue contre le cancer

Dalkia, Direction Financière

- Designed a batching architecture for multicanal marketing campaigns, admin and back office applications, BI environment
- o Enhanced flexibility, response time of large workloads using Spark
- Carried out DBA roles, data quality monitoring, analysis, data wrangling, data enrichment, ETL pipelines, Spark jobs
- O Deployed an entity recognition method for referential data matching
- Delivered a Proof of Concept for using Semi-supervised clustering for data cleaning

Founder, OmniFriend, Paris, France.

2011-2012

Omnifriend helps you discover relevant services for the website you are currently visiting

- Strategic planning
- Community management
- Full-stack development: browser extension, design, front/middle/back
- Lean startup product development
- o Business development, partnerships, fundraising start

E-commerce Engineer, *ECOCEA*, Paris, France.

2010-2011

- o Backend development, WebSphere Commerce
- o Project management, analytics: Omniture, Google web analytics

Market Analyst Intern, Orange Business Services, Dubaï, U.A.E. 2009
Delivered a Market Sizing analysis of the "Solution for Operators" business line for the Middle East and Africa region. Solution for Operators targets incumbent operators as well as *de facto* operators, such as real estate developers or conglomerates.

Languages

French: Native level

English: Professional level - CAE

International environment

Spanish: High School level

Tech

Machine Learning Internals: RuleFit, Random Forest, treeinterpreter, Embed-

Machine Learning: SHAP, Word2Vec, PCA, t-SNE, UMAP, LSH, ROC

Frameworks: Scikit-Learn, Spark, Flink, Spring

Environments: Jupyter, Sagemaker, Weka, Databricks

Databases: Postgres, MySQL, Oracle, Firebird, BigQuery, Hive, Spark SQL, Flink

SQL, Distributed Stream Processing **Tools**: AWS, Linux, Maven, Git

Languages: Python, Java, Scala, CAML, Elm, Javascript

UI: Primefaces, ReactJS, d3.js, THREE.js

Interests

Windsurf, Snowboard, (Spectating) Rhetorical competitions