

Benoît Paris

Machine Learning Engineer - Explainability Specialist



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Projects & Education

Explicable.AI. **Oct 2022**
Intuitive exploratory environment based on the knowledge contained within a machine learning model
Currently being developed
<http://explicable.ai>

Explainable Machine Learning Challenge, FICO-Google. **Oct 2018**

- 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). **2006–2009**
Computer science & e-commerce

Experience

Machine Learning Engineer, Clémence Consulting, Paris, France. **2017–2022**

Stellantis, 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, France. **2012–2017**

Stellantis, Stellantis Retail – VO, Direction Marketing Citroën/DS

La Ligue contre le cancer

Dalkia, Direction Financière

- Designed a batching architecture for multicanal marketing campaigns, admin and back office applications, BI environment
- 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
- 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
- Business development, partnerships, fundraising start

E-commerce Engineer, ECOCEA, Paris, France. 2010–2011

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

Market Analyst Intern, Orange Business Services, Dubai, 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, Embeddings

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: Linux, Maven, Git

Cloud: AWS: extensive (ECS, Lambda, CDK, RDS, SNS, SES, Fargate, Beanstalk, EC2, S3, IAM), GCP: medium (Bigquery, Storage)

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

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

Interests

Windsurf, Snowboard, (Spectating) Rhetorical competitions, Factorio, Growing salt crystals