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   **2006–2009**
School in France, PEng level).

Computer science & e-commerce

Experience

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

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,   **2012–2017**
France.

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*, 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, Embeddings

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

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