Competences File

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Because a simple CV is often not enough …

KONE HASSAN-AHMED SEKOU
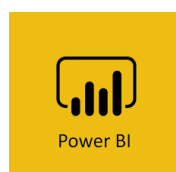### DATA SCIENTIST/CHARGÉ D'ETUDE ECONOMIQUE ET STATISTIQUE/ DATA ANALYST

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SYNTHESIS

The real purpose of my skills is, using mathematical and statistical processing software, to create, select, interpret and analyze data in order to structure them predictive, forecasting or explanatory purposes, so that they become to become real tools for public or private decision making. or private decision making.

Significant professional insight		
Period	**Enterprise**	**Position held**
02-21 / 12-21 – 11 months	TotalEnergies – Argedis (Rueil-Malmaison, 92, Fr)	Assistant data scientist /analyst /economist
03-18 / 08-18 – 6 months	ICONIA DATA SEARCH (Abidjan, Ivory Coast)	Assistant statistician
06-16 / 08-16 – 3 months	NCA RE Réassurance (Abidjan, Ivory Coast)	Assistant database manager

SKILLS

Software	Machine Learning	Various
Econometric, mathematical, statistical data processing	**Econometric models**	**Areas of application practiced**
Python, R, SAS, EViews, SPAD, Excel	Linear Model (Single and Multiple), Individual model (Fixed effect and random Effect), Regression tree, Autoregressive model, Moving average aodel, Autoregressive moving average model (ARMA), Multiple autoregressive model (VAR), Analysis of cariance (ANOVA), Analysis of covariance (ANCOVA), Probit Model, Decision and regression tree, Random forest classification and regression, Lasso modelling, Rigde modelling, Elasticnet modelling, Gradient descent, Difference-in-difference, Instrumental variable model, Regression on discontinuity	Marketing, Industry, Economics, Sports, Reinsurance, Telecommunications
Web programming	**Data analysis models**	**Project management**
HTML, CSS, JavaScript	Principal component analysis (PCA), Multiple correspondence analysis (MCA), Factorial correspondence analysis (FCA), Factorial discriminant analysis (FDA), Mixed data factorial analysis (MDA), Hierarchical ascending classification (CAH) of individuals and variables	SCRUM agile method
BI/data viz tools	**Data mining**	**LANGUAGE SKILLS**
Power BI, Python, R,MicroStrategy Workstatation, Tableau Desktop, QGIS	Rule-based classification, K-means on individuals and variables, Naive Bayesian classifier, Discretization	**French:** mother tongue
Database management system	**Statistical inference**	**English:** professional (B2)
R, Python, SAS, Excel, Power BI MicroStrategy Workstatation, Tableau, SQL	Sampling, point estimation, Confidence interval estimation, Parametric and non-parametric testing, Bootstrap	

PROFESSIONAL EXPERIENCES

02-21 / 12-21 : Assistant data-scientist/analyst - economist
TotalEnergies - Argedis, Rueil Malmaison (France)

TotalEnergies - Argedis is a wholly owned subsidiary of TotalEnergies, responsible for the management and operation of multi-activity service stations (fuel distribution, shop, washing, automatic distribution of consumables, catering, grooming, etc.) mainly on motorways in mainland France. This company employs more than 3,000 people, including a hundred or so at its headquarters.

Tasks carried out within the operations department using an agile SCRUM method:
- Data engineering:
  - Design and dissemination of surveys for needs assessment (field and online)
  - Database construction from survey data for scientific data use - analytical data
  - Data quality control for operational management processes

- Data science: econometric, mathematical and statistical modelling of full-time equivalents and turnover

- Data analysis: analysis of service station qualifications using Machin Learning and Data Mining methods (bottom-up and non-bottom-up machine learning)

- Data Visualisation: construction and implementation of a performance monitoring program of the hourly labour productivity of service stations for "Intelligent Business"

- Technical environment: Python, Excel, R, SAS, Power BI, Microsoft Forms, Microsoft Planner, MicroStrategy, Power point, Microsoft Teams, Microsoft Word, Power query
  - Libraries R: dplyr tidyr, lubridate, tsoutliers, readxl, car, lmtest, ggplot2, tidyverse, stargazer, FactoMineR, factoextra, corrplot, correlation, nomtest, stringr, patchwork, plm, lattice, DataExplorer, VIM, summarytools, funModeling, gtsummary, flextable
  - Librairies Python: pandas, numpy, Seaborn, malplotib.pyplot ,SciPy, sklearn, Linear_model, svm, tree, LogisticRegression
  - SAS procedures: PROC CONTENTS, PROC PRINT, PROC SORT, PROC TRANSPOSE, PROC MEANS, PROC UNIVARIATE, PROC FREQ, PROC CORR, PROC REG, PROC FACTOR, PROC PRINCOMP, PROC CORRESP, PROC CLUSTER

11-18 / 07-19 : Counter manager - multi-skilled employee
 Mc Donald's

- Receiving consumable and non-consumable products required for the operation of the restaurant
- Managing the assembly of orders from the kitchen for sale to the consumer
- Participation in all stages of the production chain for the final sale

03-18 / 08-18 : Assistant statistician trainee
Iconia Data Search, Abidjan (Ivory Coast)

ICONIA DATA SEARCH is a human-sized company (10 people) whose main activity is market research on different products offered by ORANGE CI and UNILEVERS (CI).

- Carrying out univariate and bivariate descriptive statistics
- Participation in needs expression workshops for the improvement of the quality of products proposed by Orange CI and Unilever CI
- Documentary research for the contextualization of studies
- Technical environment: Python, Excel, Word, Power Point

06 - 2016 / 08 – 2016 : Assistant trainee database manager
NCA RE Reassurance, Abidjan (Ivory Coast)

NCA RE Reassurance is a human-sized company (100 people) in the field of reinsurance operating mainly in the West African economic and monetary zone (WAEMU).

Tasks performed in the underwriting and marketing departments:
- Cleaning the claims and disputes database
- Classification by rules of claims and disputes in terms of processing time by regional markets
- Technical environment: Python, Excel

PROFESSIONAL AND ACADEMIC STUDY PROJECTS

Subject	Models	Software
BIG DATA analysis, company organisation and labour productivity with (Master 2 thesis)	ACP, ACM, CAH, K-means, ANCOVA	R, Python, Excel, Power Point et Word
Analysis of the population disparity in Auvergne - Rhône - Alpes (Master 2)	Descriptive statistics, statistical inference	QGIS, EXCEL
Analysis of the population of the departments of Auvergne-Rhône-Alpes (Master 2)	Descriptive statistics, statistical inference, multiple linear regression	SAS
Construction of a portfolio of actions (TotalEnergie, NEO) (Self-made)	VAR, ARIMA	Python
Analysis of the offensive sports performance in league 1 'Uber Eat' on the 30th day of the championship (Self-made)	Logit, decision tree, regression tree, random forests for regression and classification	R, Python, MicroStrategy Workstation

ACADEMIC BACKGROUND

2021 : Master 2 Economic and statistical researcher
University Lumière Lyon 2
Modelling for data visualization (Python), BIG DATA (SAS), R programming, Datamining, Econometrics, Data analysis, Innovation and health, Dynamics and forecasting (R), Geographic information system, Web programming (html, CSS, JavaScript), Public policy evaluation, Research in economic application, Local public economics

2020 : Master 1 Economic analysis and policy - economic and statistical studies officer
University Lumière Lyon 2
Econometrics of qualitative variables, panel data econometrics, study and survey, Industrial organization, mathematics, risk economics, game theory, Contract theory, time series, Mathematics, Dynamic macroeconomics, experimental economics, spatial economics, environmental economics

2017 : Bachelor's degree in economics - quantitative economics
University of Montpellier
Econometrics, Data analysis, Mathematics, Statistical inference, Descriptive statistics, Microeconomics, Forecasting methods, Macroeconomics, Financial analysis, Macro dynamics, Optimization in economic theory, Industrial organization, Business management

PLUS

- Office automation
  - Using Office 365 as a reporting and communication tool

- Volunteer work home tuition for the following levels:
  - Première: mathematics
  - license 1 and 2: mathematics, statistics, micro-economics

To know me better ...

The fact that I have visited and lived in countries such as Canada, Tunisia, England, Senegal... and now France for the last 8 years, makes me aware of the opportunities, the open-mindedness and the difference in culture that animate today's world. This has allowed me to refer to values such as team spirit, sharing, respect, living together ..., values that I find in my passion for team sports like basketball and football. In addition, I have developed a particular interest in economics and data science. Through magazines (Le Monde, Alternative économique...), I try to refine my sense of analysis. I am also part of an association called Lyon Data Science, a very nice platform... http://www.lyondata.science/ ☺