

## KONE HASSAN-AHMED SEKOU

### DATA SCIENTIST/CHARGÉ D'ETUDE ECONOMIQUE ET STATISTIQUE/ DATA ANALYST

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- ✓ **Gitbug** : <https://github.com/konehassan92>

### CAREER PATH

#### 02-21 / 12-21 *Assistant data scientist/analyst/economist*

##### *TotalEnergies - Argedis (Rueil-Malmaison)*

- ✓ Work organization according to the SCRUM agile methodology
- ✓ Data engineering:
  - Design and distribution of surveys for field and online requirements (Microsoft Forms)
  - Construction of databases from survey data for scientific data use - analytical data
  - Data quality control for operational management processes
- ✓ Data analysis: Analysis of qualifying attributes of service stations via factorial methods
- ✓ Data science: Econometric (mathematical and statistical) modelling of full-time equivalents and turnover
- ✓ Data Visualization: Construction and implementation of a service station performance monitoring application for "Intelligent Business"

#### 03 - 18 / 08 - 18 *Assistant Trainee Statistician*

##### *Iconia Data Search, Abidjan (Côte d'Ivoire)*

- ✓ Conducting univariate and bivariate descriptive statistics
- ✓ Preparation of 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

#### 06 - 16 / 08 - 16 *Assistant trainee database management*

##### *NCA RE réassurance, Abidjan (Côte d'Ivoire)*

- ✓ Cleaning of the claims and disputes database  
Classification by rules of claims and disputes in terms of processing time by regional markets

### ACADEMIC BACKGROUND

#### 2021 *Master 2 Economic and statistical researcher*

##### *University Lumière Lyon 2*

BIG DATA, data mining, Econometrics, Data analysis, Innovation and health, Modelling for data visualization, Dynamics and forecasting, Geographic information system, Economic application research, Local public economics

#### 2020 *Master 1 Economic Analysis and Policy*

##### *University Lumière Lyon 2*

Categorical Variable Econometrics, Panel Data Econometrics, Time Series, Industrial Organization, Risk Economics, Game Theory, Contract Theory, Mathematics, Dynamic Macroeconomics, Experimental Economics, Spatial Economics, Study and Survey, Environmental Economics

#### 2017 *Degree in economics - quantitative economics*

##### *University of Montpellier*

Econometrics, Data analysis, Mathematics, Statistical inference, Descriptive statistics, Forecasting methods, Microeconomics, Macroeconomics, Financial analysis, Macro dynamics, Optimization in economic theory, Industrial organization, Business management

### OBJECTIVE: To offer a collaboration on a permanent contract

**Availability: ASAP**

### ABOUT ME

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

### PROFESSIONAL AND ACADEMIC PROJECTS

- ✓ BIG DATA analysis, company organization and work productivity with R, Python, SAS (Master 2 thesis)
  - Description and selection of quantitative and qualitative attributes determining the functioning of service stations
  - Integration of the automatic classification of service stations in an econometric model explaining hourly productivity in relation to daily turnover per activity
- ✓ Population analysis of departments in Auvergne-Rhône-Alpes with SAS (Master 2)
- ✓ Construction of a stock portfolio (TotalEnergie, NEO) and econometric forecast with VAR and ARIMA models with Python (Self-made)
- ✓ Analysis of offensive sports performance in league 1 'Uber Eat' on the 30th day of the championship (Self-made)

### SKILLS

Skill File: <https://github.com/konehassan92/CV-LM-COMP/blob/main/competences%20file%20KONE%20HASSAN.pdf>

#### IT

##### Data science/analysis/ Database management

Python

R

SAS

Microsoft Excel Advanced

##### Data visualization

Tableau

Power BI

MicroStrategy

QGIS

SQL

##### Work organisation

Microsoft office enterprise: *Word, PowerPoint, Teams, Planner, Forms ...*  
Google: *Colaboratory, Forms ...*

#### Machine Learning

##### Time series

AR, MA, ARMA, VAR, VARMA

##### Classification

CAH, k-means, naïve Bayesian classifier, K-neighbours, decision tree, random forest

##### Econometric

Linear, Multiple, ANOVA, ANCOVA, Probit, Logit, Individual effect, Regression tree, Gradient descent, Lasso, Difference-in-differences, Model with instrumental variables, Regression on discontinuity, random forest

##### Statistics

Vector distribution, Point estimation, Confidence interval estimation, Parametric and non-parametric testing, Bootstrap, Discretization

##### Factor analysis

PCA, MCA, CA, FMA, DFA

#### Linguistics

##### French

Native language

##### English

Level B2 (professional)