Data Scientist | R Developer

Abdessamad Ait Mbarek

WORK EXPERIENCE

Researcher / Quantitative Analyst *High Commission for Planning (HCP, Rabat)* January 2022 - Present

Head of Research Unit on Social Inequalities at the Observatory of Living Conditions of the Population

- Development of Machine Learning model for targeting households benefiting from social programs.

- Contribution to a study on categorical inflation and changes in household purchasing power.

- Development of R package `GiniDecompLY` for the implementation of the Lerman Yithzaki decomposition method for simulating the impact of income sources on income inequality.

- Implementation of machine learning models for predicting consumption distribution and application of multiple imputation techniques for imputation of poverty rates in the Labor Force Survey.

Statistician / Survey Data Analyst *High Commission for Planning (HCP, Rabat)* April 2019 - December 2021

- Contribution to the execution of the National Survey on Living Standards and Sources of Household Income 2019

- Contribution to the development of the survey questionnaire, validation and cleansing of the micro data, updating of living standards key indicators.

- Contribution to the execution of the National Survey on the Impact of the Coronavirus On the Economic, Social, And Psychological Situation of Households

Junior Statistician *High Commission for Planning (HCP, Rabat)* May 2017 – March 2018

- Implementation of semi-parametric generalized models on households' survey data to analyse the effects of economic growth and inequalities on schooling dynamics in Morocco. (See Publication)

Data Scientist, Part time Freelancer April 2018 – Present

Providing end-to-end data solutions, encompassing data cleansing, pre-processing, exploratory analysis, modeling, and data visualization services. I meticulously clean and refine raw datasets, conduct in-depth exploratory analysis to uncover insights, develop robust models using advanced techniques, and create visually compelling reports and dashboards.

SKILLS

Statisitics; R Programming; Data Wrangling; Predictive Modeling; Quantitative Analysis; Data Visualization; Reporting

EDUCATION

Diplôme d'Ingénieur d'Etat – Statistics (State Engineer's Degree in Statistics)
National Institute of Statistics and Applied Economics (INSEA, Rabat) September 2014 — July 2016

- Specialized in statistical analysis, data modeling, and research methodologies.
- Completed an intensive program in statistics with a focus on Econometrics, Decision Theory, Quantitative Analysis
- Qualification equivalent to a master's degree in Statistics

Bachelor degree – Mathematics and Applications *Cadi Ayad University (FSSM, Marrakesh) September 2011 — July 2014*