

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

Statistics; 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*