

Arif Huseynov | Data Scientist and Modeller

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Professional Profile

Creative solution designer in data science and transportation modelling fields with big interest in machine learning implementation for choice modelling and forecasting. Currently working on a thesis project directed to solve the problem of hyperparameter optimization for Transport Mode choice estimation models.

Core skills

- Python
- Tensorflow, Biogeme
- Machine Learning
- Data Analysis
- SQL
- Matlab
- Cloud computing
- Github
- Data Visualization
- IBM Watson Studio
- Web Scrapping
- Google API's
- Tasks delegation
- Mediator
- Responsive

Career Summary

March 2021 – Present

Thesis Project

Sapienza University of Rome

Outline:

Analysing survey for New York city about transport mode preferences. Visualizing hidden patterns and variably dependencies, building Multinomial Logit model from scratch and implementing BFGS, Gradient descent, Newton and other optimization methods with Tensorflow and Biogeme packages, comparing results with Random Forest application.

Key responsibilities:

- Data preparation and encoding
- Choice model design and optimization
- Optimization improvement for multivariate model
- Automatic Differentiation implementation
- Random Forest Classifier application and optimisation
- Final software development for Transport Mode Choice estimation

Key achievements:

- Achieved better performance of model optimization with tensorflow integration for local extremum search
- Increased model global predictiveness from 0% up to 85% with Random Forest Classifier

June 2015 – December 2016

Sales Engineer

“A + A Security” LLC

Outline:

Working on the company's current projects, meeting with customers for contract negotiations, preparing presentations about electronic security solutions. Daily research in the appropriate field and searching for new equipment and partners. Fleet Management solutions sales, customer assistance and training workers of contractor companies.

Key responsibilities:

- Drawing up contracts, negotiating.
- Assisting customers to solve daily control tasks.
- Send to customers yearly, monthly Fuel Consuming Reports, help to determine any offences of fuel consumption.
- Searching, networking and identifying the needs of potential customers.
- CRM system implementation.
- Planning sales department activities.

Key achievements:

Closed contracts with more than 220 000 euros income. Implemented Bitrix 24 CRM system with document control automatization.

Education & Qualifications

- **2018 – current time** **Sapienza University of Rome**
MSc (Laurea Magistrale) in Transport Systems Engineering
- **2009 - 2015** **Azerbaijan State Marine Academy**
BSc in Process Automation Engineering
- **2021** **Coursera** (10 certificates)
IBM Data Science specialization ([credentials link](#))

Languages English, Russian, Azeri, Turkish (basic)