Arif Huseynov | Data Scientist and Modeller

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Professional Profile

Creative solution designer in data science and transportation modeling fields with a keen interest in integrating machine learning and AI models with econometric models. Currently working on a thesis project directed to solve the problem of convex optimization for Transport Mode choice estimation models. You are kindly invited to visit my portfolio to see some examples of my projects.

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 – October 2021   **Thesis Project**

Sapienza University of Rome

Outline:

Analyzing National Household Travel Survey conducted by the Federal Highway Administration of USA. Visualizing hidden patterns and variable dependencies, building Multinomial Logit model from scratch with Tensorflow package in Python, and implementing BFGS optimization method. Represent effectiveness of implementing the Backpropagation Algorithm and compare optimization time between models in Tensorflow and Biogeme packages.

Key responsibilities:

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

Key achievements:

Achieved better performance of model optimization with TensorFlow integration (Backpropagation Algorithm) – 134 times faster than optimization with Biogeme for multidimensional input.

June 2015 – December 2016   **Sales Engineer**

                                        "A + A Security" LLC

Outline:

Fleet Management solutions sales, customer assistance, and training workers of contractor companies. 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.

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)