**Khatuna Kurdovanidze | MSc Statistical Data Science**

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**PERSONAL STATEMENT**

Data Scientist with an MSc in Statistical Data Science and a First-Class BA Psychology degree. I continually invest in improving my production capability through training and new challenges. I use Machine Learning methods when predicting or making inference. I am keen to contribute my Behaviour Analysis and Data Science expertise to a dynamic and innovative team working on designing and building AI products and services.

**EDUCATION**

***Masters* *Statistical Data Science*** University of Kent, Canterbury, UK,accredited by Royal Statistical Society (2020 – 2021, expected grade 2:1)

Key modules studied:

* Probability and Classical Inference
* Statistical (Machine) Learning
* Advanced Regression Modelling
* Computational Statistics
* Principles of Data Collection
* Bayesian Statistics
* Stochastic Processes and Time Series
* Data Science (Machine Learning) with R.

***BA in Psychology*,** Panteion University of Social and Political Sciences, Athens, Greece (2010 – 2017, first-class)

Relevant modules:

* Behaviour Analysis - 90%
* Descriptive Statistics – 90%
* Inductive Statistics – 100%
* Multidimensional Statistics – 90%
* Practice in Statistics (SPSS) – 100%
* Methods and Techniques of Research in Cyberspace – 100%.

***Process Control Engineer*,** Diary Engineering, Tbilisi Technological Institute, Georgia (1992 – 1996).

***Economics and banking****,* Institute of Economics and Business, Tbilisi, Georgia (1994 – 1996).

***School #11****,* Tbilisi, Georgia (1981-1992, overall mark 9.6)

Final exams: Mathematics (8), Russian (8), Russian literature (10), Georgian (10).

**SKILLS**

* Experience with statistical software R and SPSS
* Python, SQL, Jupyter Notebook, MATLAB, Octave, Open BUGS
* Statistical methods (statistical hypothesis testing, significance tests, and experimental design, etc.)
* Machine learning methods (linear regression, logistic regression, linear discriminant analysis, cross-validation, lasso, K-nearest neighbors, tree-based methods, principal component analysis, K-means clustering, etc.)
* Time series analysis (ARMA Processes, SARIMA Processes, Visualization, Forecasting)
* Good knowledge of Google Docs, MS Word, Excel, and PowerPoint.

**COURSES**

* Machine Learning with Dr Andrew Ng, Stanford University (Coursera, 2021)
* Python Crash Course for Data Science and Machine Learning, (Udemy, 2021)
* Calculus - Mathematics for Data Science - Machine Learning, (Udemy, 2021)
* Linear Algebra for Data Science & Machine Learning (Udemy, 2021)
* Practical Time Series Analysis, The State University of New York with

Dr Tural Sadigov and Dr William Thistleton (Coursera, 2021)

* Next planned Designing and Building AI Products and Services, MIT (xPRO, 2021).

**LANGUAGES**

* Georgian (native), Russian (bilingual), English (academic IELTS, overall score 7, July 2020), Greek (University of Athens Certificate, overall score 90%), Romanian (beginner).

**WORK EXPERIENCE**

***Social Media Evaluator*, Appen Ltd, remote (2020 – 2021)**

* Rated ads on a social media platform;
* Gained experience with an Internet-based company.

***Teaching Assistant,* Greenvale Infant and Nursery School, Chatham (2019-2020)**

* Worked in a team of two other teachers;
* Learnt to be confident presenting in front of other people.

***Supermarket* *Cashier*, Daily Express, Athens (2008 – 2010)**

* Performed routine cash register/checkout duties;
* Balanced the till at the end of the day and maintained an accurate cash drawer.

***Restaurant Cashier*, Aulogyros, Athens (2004 – 2007)**

* Used Microsoft Access to access customers’ data;
* Took customer orders at the counter and over the phone;
* Learnt how to work very fast managing dine;
* Resolved customer complaints to ensure excellent customer service.

***Invoicing Clerk*, Hellenic-American Publications, Athens (2000 – 2004)**

* Used Eurofasma software for invoicing;
* Practiced MS Word and Excel skills;
* Handled incoming customers calls.

**EXPERIENCE WORKING WITH DATA**

* **Statistical Data Science Master’s *Dissertation*:** I used R software to write functions for the new weighted and mixed portmanteau tests and compared the size and power of old and new portmanteau statistics. I used these tests to check the goodness of fit of linear ARMA time series models and to detect non-linearity in GARCH models.
* **Psychology BA *Dissertation*:** I used SPSS software to examine the relationship (correlation) between parental punishment and anxiety disorder symptoms among pre-schoolers;
* **Statistical Data Science MSc Taught Course *Sampling Assessment* using MS Excel:** From the given population I found: a simple random sample, unrestricted random sample, stratified (for two strata: males and females) simple random sample using proportional allocation, and a stratified (for three strata according to socio-economic group) simple random sample using Neyman allocation. Found confidence intervals for different mean values.
* **Statistical Data Science MSc Taught Course *Experimental Design and Clinical Trials Assessment* using R programming language:** I analysed outcomes of the experiment, checked data for variance heterogeneity and non-normality, constructed an ANOVA table and tested for treatment effects, compared treatments, and recommended an optimum treatment combination. Reported my analysis where I included a summary detailing my conclusions for the nontechnical reader;
* **Statistical Data Science MSc Taught Course *Statistical (Machine) Learning Assessment* using R programming language:** Ianalysed data with PCA and FA, decided on the number of components to keep and interpreted the results in terms of the loadings and the scores. Divided a different dataset into a *training data* set and a *test data* set, built a discriminant rule with LDA using the *training data* which I used it to allocate emails either to spam or not spam in the *test data*. Used the confusion matrix to check the accuracy of the discriminant rule.

**INTERESTS**

In my spare time I enjoy reading, cooking, and gardening.