Aristeidis Petrakis

Statistician, Data scientist, Econometrician, Computational Biomedicine Researcher.

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EXPERIENCE

Foundation for Research and Technology - Hellas (Institute of Computer Science), N. Plastira 100, 700 13 Heraklion, Greece — *Statistical Analyst*

04/2024- present

Job description: Applied statistical methods and machine learning techniques to analyze complex biomedical datasets, including genomic, proteomic, and clinical data. | Developed predictive models and advanced AI/ML algorithms for biomedical research, optimizing performance and ensuring reproducibility. | Collaborated with interdisciplinary teams to integrate computational insights into healthcare and biomedicine applications. | Conducted model evaluation, statistical validation, and data visualization to support data-driven decision-making. | Contributed to scientific publications and reports, effectively communicating results to diverse audiences.

Key Skills: Statistical modeling, data analysis, and machine learning| |Programming in Python, R, MATLAB, and experience with biomedical data.|Strong collaboration and problem-solving abilities in multidisciplinary settings.

Projects: Bounce, Odin, Sunrise,Promote

Rhenus logistics, Ledeboerstraat 46-48, 5048 AD Tilburg, The Netherlands — *Quality Control*

01/2021 - 10/2021

Job description:

Maintained and analyzed large datasets of defective materials, ensuring comprehensive documentation for quality control processes. | Monitored and implemented corrective actions, ensuring defective parts were repaired, re-tested, or removed from production to maintain quality standards.

LANGUAGES

English: Fluent, Certificate of Proficiency in English, Michigan University and IELTS(7/9) | Greek: Native speaker | Dutch: A1 and A2 certificates.

SKILLS

Computer skills:
Extremely comfortable| Able to perform all basic tasks within a windows' environment | R-plus, MATLAB, Python, SPSS, MINITAB, EVIEWS, STATA, Excel, Latex

Technical skills:
Data driven mindset | Extremely familiar with the process of big data and presenting their descriptive | Experienced with Ml and AI algorithms | High computational skills | Experienced with building, testing validating and interpreting predictive models | Causal inference | Finding patterns and testing if they are results of data mining.

Communication-Collaboration skills:
Carried out projects for a variety of subjects in the University both with team

MINOAN TRADING, Abdij van Averbodestraat 14, 5037 CB Tilburg, The Netherlands — *Co-owner*

04/2020 - 06/20233

KVK number: 82303592

Experience relative to position : Create predictive models on demand and possible sales by exploiting big data, AI and ML algorithms.

XPO logistics, Letostraat 33-35, 5047 RP Tilburg, The Netherlands, — *Stock Control*

10/2019-11/2020

Job description:

Ensured stock levels were accurate and maintained by ordering new inventory and processing orders as needed.| Managed inventory data (big data) through detailed record-keeping and analysis, ensuring smooth operational workflows. |Developed and applied AI-driven predictive models for demand forecasting to align supply with market needs.
| Provided exceptional customer service by addressing inquiries and resolving inventory-related concerns.

XPO logistics, Letostraat 33-35, 5047 RP Tilburg, The Netherlands, — *Warehouse Employee*

04/2019-08/2019

General Hospital of Athens "ELPIS", Dimitsanas 5, 115 22 Athens,Greece, — *Statistical Analyst*

09/2016-04/2017

Job description:

Collected, integrated, and analyzed large-scale biomedical data from diverse sources to identify trends and patterns.|Developed machine learning models to build predictive insights for healthcare applications, supporting clinical decision-making.| Delivered detailed presentations to stakeholders, translating complex data into actionable insights and proposing improvements using AI methodologies.

Alex Café, Kifisias 40, 115 26 Athens, Greece, — *Service*

08/2011-12/2013

Η χώρα των Λωτοφάγων, Agrianna Cherisonisou, Heraklion, Greece, — *General Duties*

07/2009-08/2009 & 07/2010-08/2010

and individually| Participated in a lot of Student's Committees (2004-2014) | Attended for many years in a summer camp with a competitive championship and group activities | Being enrolled into 2 competitive masters had to cooperate with many people from very diverse backgrounds.

PERSONALITY TRAITS

Leadership skills | Team player who can work also individually | Have been administering funds since young age | Open-minded and always I mood for learning something new | Very independent | Direct | Caring about doing right my job | Caring about my colleagues | People claim I have good humor | Good at socializing.

HOBIES

Researching about my interests (Politics, finance, geopolitics, history, music)| Chess |Football (both watching and playing) |Reading books | Socialize with good company | Watching Tv series/ documentaries | Partying | Gaming | Music Festivals

EDUCATION

Tilburg University, The Netherlands— Msc in Econometrics and Mathematical Economics

01/2020 - 08/2024

School of Economics and Management - Department of Econometric and Operational Research

Master thesis

"What is the causal effect of negative life events and personality traits on the mental health in breast cancer patients? Clinical evidence from panel data." Description : Exploring the causal relationship between mental health, personality traits and adversary life events with the use of longitudinal big data that contained biomedical and socio-economic information on breast cancer patients which was gathered by the European Union program named "Bounce".

Projects/Assignments relative to the position :

- 4 assignments for the course of Decision Making With Business Analytics, where big data was utilized to create AI and ML algorithms for the creation of predictive models in operational research.
- 2 assignments for the course of Data Science Methods where big data of biomedical and economical information were exploited to create predictive models, AI and ML algorithms towards the goal of optimizing profits of the Dutch healthcare system.
- The course of Professional Business Analytics Skills was examined by taking one case study and successfully implying AI, ML algorithms on big data to predict the total supply which will maximize the profits and minimize the costs of a new LG-Philips production unit.
- 1 assignment in Time Series and their application & 2 in Empirical Finance where the building predictive models on portfolios by exploiting big data was required.

Tilburg University, The Netherlands— Msc in Quantitative Finance and Actuarial Sciences

08/2017 - 08/2019 (NOT OBTAINED)

School of Economics and Management - Department of Econometric and Operational Research

Athens University of Economics and Business, Greece — Bsc *Statistics*

09/ 2010 - 06/ 2017

School of Information Sciences and Technology - Department of Statistics

Bachelor thesis :

"Predicting the cost of surgical operations in General Hospital ELPIS"
Description: Make predictive models with the assistance of ML algorithms, for the cost of each operation and for the total monthly cost by exploiting information from a big data set which contains biomedical and economical information on patients that had been hospitalized in hospital ELPIS.

Projects/Assignments relative to the position :

Multivariate Statistics, Data Analysis with the usage of R , Advance Sampling Methods, Bayesian Statistics, Non-Parametric Statistics and Stochastic Processes (I and II) had assignments that bid data of biomedical information had to be analyzed and build predictive models with the use of AI and ML algorithms.

Third General High school of Heraklion, Leof. Dimokratias 12, Heraklion 713 06, Greece — *Greece High school Diploma*

09/2008 - 06/2010