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Panagiotis Evagelidakis

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ABOUT ME

I am Panos Evagelidakis an ambitious software engineer who has a strong interest in data science and machine learning. I have a Bachelor's in Mathematics and am presently working for my Master in Data Science. I have a strong analytical mindset and enjoy finding solutions to problems, which I bring to the tech industry. Through a variety of experiences, such as working at Ballista Technology Group LLC and being named a Project Future Finalist, I have improved my skills. My digital toolkit includes expertise in Python and R, Java and Kotlin Android app development, Scala, Java, and TypeScript Software Engineering and a command of numerous data science and machine learning packages. I'm passionate about data visualization and use programs like Matplotlib, Plotly, Tableau, and Power BI to create engaging data narratives. Having a strong foundation in SQL and being knowledgeable about data streaming technologies like Apache Kafka and Flink, and thanks to them I'm well-equipped to handle complex data challenges.

EDUCATION AND TRAINING

Bachelor of Science Degree in Mathematics

University of Crete [21/09/2015 – 24/11/2021]

Address: Vasilika, Voutes, 70013 Heraklion (Greece)

Field(s) of study: Natural sciences, mathematics and statistics: *Mathematics*

Final grade: 6.74

Thesis: Marine Acoustic Signal Analysis in Time-Frequency Domain with Additive Gaussian White Noise

After my training on the academic fundamentals of mathematics (Calculus, Introduction Real Analysis, Abstract and Linear Algebra, Probability Theory, Differential Equations, Complex Numbers and Learning to code in Python Programming Language) I had the opportunity to gain more experience on the domains of Complex Analysis, Numerical Analysis, Acoustic Oceanography, Ordinary Differential Equations, Number theory, Group Theory, Euclidean and Non-Euclidean Geometry and Applied Algebra. Then, I focused on Parametric and Applied Statistics where I was blessed by the chance to get a generalized idea of decision making, data mining, data cleaning and hypothesis testing

Master of Science in Data Analysis and Machine Statistical Learning

University of Crete [15/09/2023 – Current]

City: Vasilika, Voutes 70013 Heraklion

Country: Greece

Data Structures, Probability Theory, and Numerical Algorithms are the first topics we explore. Following this crucial step, we basically continue studying Mathematical and Computational Statistics and introduce ourselves to Data Science and Machine Learning. Next, my goal is to explore Information Theory and Information Retrieval, Big Data Analytics, Advanced Machine Learning, and Data Science Theory, provided that Time Series Analysis and Optimization Theory is laid out.

WORK EXPERIENCE

Teaching Mathematics (private lessons in groups and one-one)

[2017 – 2022]

I usually teach maths in academic level but I have taken care of school students too. The positive rate of my students is near 95% where the rate has been calculated according the progress of my student at examinations results.
I teach Algebra (Linear, Abstract and Applied) , Statistics (Parametrics and Applied), Geometry (Euclidean and Non), Differential Equations, Calculus and Probability Theory.

Software engineer

Ballista Technology Group LLC [01/06/2022 – 30/08/2023]

City: Heraklion

Country: Greece

Contributing on building a compiler. Work on Java, Typescript, Scala and SQL. Use parallelism, test-driven, research-driven and event-driven approach.

LANGUAGE SKILLS

Mother tongue(s): **Greek**

Other language(s):

English	**German**
LISTENING B2 **READING** B2 **WRITING** B2	**LISTENING** A2 **READING** A2 **WRITING** A2
SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2	**SPOKEN PRODUCTION** A2 **SPOKEN INTERACTION** A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Programming languages (Python and R program) / Android Development (Kotlin, Java) / Mobile App Development / Python (NumPy, Pandas, Scikit-learn, TensorFlow, Spacy) / Python scientific libraries (NumPy, SciPy, Pandas, Matplotlib, Plotly) / Python Data Visualisation following Grammar of Graphics (Plotly, Dash, ggplot2/Plotnine) / Relational Databases: SQL / Retrofit, Volley / Android App Development (Android Studio) / Model-view-viewmodel (MVVM) / Data Science, Data Analytics, Data Visualization / SQL (MySQL) / Organizational and planning skills / Machine Learning / Critical thinking / Data Streaming (Apache Kafka) / Apache-Flink / Data Visualization Tableau (Data analysis) Microsoft Power BIdata Management / PowerBI / Functional Programming with Scala / Javascript, TypeScript / Html, Java, CSS / Python (Pandas, Numpy, Matplotlib, Scipy, PySpark) / Python DSci/ML Libraries (Numpy, Pandas, Sklearn, Scipy) / Python(Pandas Matplotlib Seaborn Pytorch Tensorflow) / XML, JSON, YAML and others data models / Data Science ,Data Analytics / Android (Android Studio) / OOP, Design Patterns, Multithreading in JAVA / Cats-Effect / Apache-Kafka / apache spark / Data Streaming / MVVM / Html+CSS+JS / Typescript & Angular

HONOURS AND AWARDS

Mobile App Developer | Project Future Finalist

I was trained on how to develop a mobile app using **Java** or Kotlin and then I was a member of a team, where we developed an app in **Android Studio using Room**, **Volley** and **Gson**.

Data Analysis Bootcamp

Data Analysis Certification

I learned working on **Tableau**, **PowerBI**, **MySQL** and **Python** and apply this knowledge on **real-world** problem cases. I took the chance to learn about **Apache Flink PySpark** and analyze data using that powerful tool. I introduced myself on **business analysis** and how to manage **financial Risk using Python**.

COURSES AND CERTIFICATIONS

Machine Learning with Python | By freeCodeCamp

[03/2022 – 03/2022]

I was trained to construct **neural networks** for **image classification**, for **NLP** (Natural LAnguage Processing), **Linear Regression, K- Nearest Neighbours** and to use **Reinforcement Q Learning** to make computer much more thinking competitive.

Data Science with Python | By University of Athens

[03/2022 – 03/2022]

I was trained to understand and be able to clean and analyse the data and to use Linear and Multiple Regression, Classification using Random Forests, Decision Trees and Naive Bayes Classifier, Support Vector Machines and Support Vector Classifier, Principle Component Analysis,Cross Validation, K-means, K-Nearest Neighbors, Artificial Neural Networks.

Data Science with Python | By Udemy

[04/2022 – 04/2022]

I was also trained to be able to do all the methods that UoA taught me to do, but I got a mini expertise on Neural Network and I also learned to do NLP (Natural Language Processing).

Java SE 7 Programmer | By HackerRank

[05/2022 – 05/2022]

I exposed myself on Java OOP and learn how to use data structures in order to apply on problem solving. This made me understand more about compiler issues and how can I easily handle any information or data I got.

Link: https://www.hackerrank.com/certificates/71eec34e1420

Machine learning | By Coursera (Professor Ng Andrews)

[04/2022 – 04/2022]

I learned more about statistical learning problems and their applications on real-world data. Multiple, Logistic, and Linear Regression made easy with MATLAB, Decision Trees, Random Forests, and Naive Bayes Classifier been applied on real data. I also worked on neural networks where I tuned shallow RNNs CNNs and ANNs for comparing reasons to regressors.

Link: https://www.coursera.org/learn/machine-learning?

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learning.~opencourse.course_complete.Gtv4Xb1-EeS-ViIACwYKVQ.

Python for Finance: Investment Fundamentals and Data Analytics| (By Udemy)

[04/2022 – 04/2022]

This course made me realize the potential of the combination of Python and mathematics. I introduced myself on **trading**, **returns** and what's a **portfolio** stands for. Then, I applied **Markowitz's portfolio theory**, and **Monte Carlo** method for trading. Finally, we applied **Black-Scholes-Merton Differential Equation** for governing price evolution of European calls. I also worked on Financial Data API for IEX, MorningStar and yahoo.

Link: https://www.udemy.com/certificate/UC-1a840dd8-e24c-476d-a163-443b018dc828/

Spark and Python for Big Data with PySpark | (By Udemy)

[01/2023 – 01/2023]

I focused on analyzing **Big Data with PySpark** using **API** retrieved data and then I did some **data analysis** to explain the story that data create. I also learned how to use an **event-driven tool** using the **Twitter API**.

Link: https://www.udemy.com/certificate/UC-99bf1ba7-50dc-4daa-93a9-bb02ad8fcf5c/?

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Introduction to FHIR | (Udemy)

[10/2022 – 10/2022]

I learned a lot about **FHIR** data and how I can retrieve and handle them using **Mirth** Platform

Typescript | Type script & Angular 13 Bootcamp from Scratch | (Udemy)

[01/09/2023 – 07/09/2023]

In this course I learned how to develop a **Full Stack Application** using **TypeScript** and **Angular**, and I using that I created my own website!

Link: https://www.udemy.com/certificate/UC-5b27cce1-3c88-49bd-a9ed-9616c44f51f4/

JavaScript Essentials 1 | (Cisco)

[01/09/2023 – 03/09/2023]

I learned a lot about JavaScript and how to use animation in JS. This made me understand more about web development and the back-end management of a website

Link: https://www.credly.com/badges/7edcfd2f-ec6a-442e-bf57-8ecd8e2f80b4/linked_in?t=s09x75

Introduction to Data Science | (Cisco)

I gain more knowledge on the field of Supervised Machine learning. This was really helpful understand the importance of the supervised learning against of the machine learning tools and techniques.

Link: https://www.credly.com/badges/463f10aa-5c3f-420e-a73d-15ff518a4de4/linked_in?t=s07qea

VOLUNTEERING

Work Assistant | Cretan Diet Festival

[Rethymno, Crete, Greece, 30/06/2016 – 06/07/2016]

Work Assistant | Cretan Diet Festival

[Rethymno, Crete, Greece, 30/06/2017 – 06/07/2018]

Work Assistant | Cretan Diet Festival

[Rethymno, Crete, Greece, 30/06/2019 – 06/07/2019]

Volunteer Musician | Board Member

[Rethymno, Crete, Greece, 09/2016 – 09/2018]

HOBBIES AND INTERESTS

Mathematics and Statistics

I greatly enjoy reading about Group Theory, Galois Theory, Statistics, Decision-Making, and Utility Theory in my spare time. I now understand that there can be links between elements that can allow you to learn more about the entiregroup thanks to algebraic ideas. When someone applies statistics to group theory, he can feel the freedom of Mathematics because he can choose how groups are classified in instances when he wants to understand them better. It is crucial that the researcher understand how to make rational conclusions at this step. We can rely on decision-making and utility theory in this situation. We can rely on Information Theory as well if I want to be more precise.

Data Science and Machine Learning

I have the chance to appreciate the beauty of a computer's power thanks to machine learning and data science. With accuracy in the range of 89% to 98% (excluding cases of data leakage), I am able to manage very huge datasets and generate any predictions I want. This let me see the potential of the statistical and computer science combination.

Learning and Researching on CS issues

I am always eager to learn more ways of doing simpler and faster some ordinary programming jobs. Parallelism is

one of them. Some other topics that I really love researching on that is cross-platform tools (such us Docker and Kubernetes) and Scala Algebraic Data Structures

Music

I adore playing the guitar and listening to music. While listening to or playing music, I find that I can unwind, think more clearly about any circumstance, and come to the best decision.

Reading Books

I like to read mysteries. makes me consider every scenario that might occur and weigh its likelihood.Because reading books helps me develop my analytical thinking, I feel safer when I have to make any significant decisions.