STAVROS KETSEAS

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PERSONAL   INFORMATION

Date of Birth	22/07/1997
Citizenship(s)	Greek
Military Obligations	Fulfilled

FIELDS OF INTEREST

Machine Learning, Data Science, Data Analytics, Data Engineering, Data Mining, Cloud Computing, Business Intelligence, Big Data, Artificial Intelligence, Database Management (DBMS), Digital System Security & Privacy, Software Development,Application Development, Debugging, Web Development, UI/UX Design

EDUCATION

02/2021 – 10/2022	***National Technical University of Athens –*** Athens, Greece M.Sc. in Data Science & Machine Learning ▪ Grade: 9.5/10
09/2015 – 02/2020	**University of Piraeus** – Piraeus, Greece B.Sc. in Department of Digital Systems (Specialization on Software Systems, Data and Database Management) Owner of tutoring license, certified adequacy concerning pedagogics and tutoring ▪ Grade: 8.24/10

10/2017 – 03/2018	**Martin-Luther-Universität –** Halle Wittenberg, Germany
	Erasmus+ programme, In agreement with University of Piraeus
	
	▪ **Field of Studies:**
	  Computer Science
	▪ **Courses:**
	  Database Systems, Compilers, XML and Databases, Data Compression

09/2013 – 06/2015	**"Makrigianneio"** – Alimos High school ▪ Grade: 18.3/20

WORK EXPERIENCE

09/2023 – present	**Software Engineer / Data Engineer at Ubitech –** Chalandri, Attiki, Greece
05/2022 – 09/2023	**Data Science Analyst at Accenture Greece –** Kifisia, Attiki, Greece
09/2017 – 09/2023	**Official FIBA Basketball Referee** – South-Eastern Suburbs of Athens, Greece

SKILLS

Language	**Greek** (Native)
	English (Fluent): C2 Certificate of Proficiency, University of Michigan
	German (Intermediate): B1 Certificate Deutsch, Goethe Institut B1.1 & B1.2 German course, Martin-Luther-Universität
Technical	Python, PySpark, R, SQL, Databricks, Microsoft Power BI, DAX, Microsoft Azure, Microsoft Fabric, Aera Platform, Java, Bash, Jira, Git, Azure DevOps, C, C++, CSS, HTML, Java Script, Latex, MATLAB, MS Excel, MS Office, Moodle, Octave, Oracle BPM Studio, PHP, React, SAS, SPSS, Scratch, UML, Unix, Wireshark, XML

ACTIVITIES - PROJECTS

10/2023 – present	**For Hellenic National Cadastre (proof of concept - production pending)** – Development of Microsoft Power BI Application for efficient monitoring of Hellenic National Cadastre's operation and improvement, including Data Modeling Techniques, DAX, Power BI Desktop, Power Query, interactive dashboards, visualizations customization, drill-down features implementation, appealing reports, ETL processes, Data manipulation and analysis, Query writing and optimization (MSSQL). KPI's fulfillment and actionable insights revelation through collaborating with stakeholders, understanding business requirements and translating business needs into technical solutions
09/2023 – present	**For Major Sports Betting Company** – Development and optimization of company's website and mobile application (UI/UX Design) using React. Familiarization with DBMS Admin responsibilities such as Designing and normalizing schemas, Index management, Query tuning, Stored Procedures & Functions, Managing scheduled jobs for data ingestion, Security & Governance, Backup, Recovery & High Availability and Monitoring & Performance Tuning
01/2023 – 07/2023	**For Major High Tech Company** – Data Engineering on a cloud platform (Aera skill builder) with SQL following industry best practices and performing advanced querying for efficient supply chain management. Full stack development using Exasol SQL, Java, ETL for Big Data, Data Management, GUI design (UI/UX) in a visual programming tool, low code environment, Star Schema Relational databases (BI), testing and documentation tasks

11/2022 – 12/2022	**Internal Organization Projects** – Newsletter software using python and web scraping techniques – T&O: Resume Screening using Machine Learning via python
05/2022 – 10/2022	**For Major High Tech Company** – End-to-end process automation use cases from data ingestion to monitor business KPIs and incorporate intelligence that transforms the way the customer works, using PostgreSQL, MS SQL, Python, Shell scripting (Bash) and DevOps concepts

01/02/2021 – 13/03/2022 **University projects (MSc):**

Data Mining - Covid Exploratory Analysis (Using Python and Spark)

Machine Learning - Airbnb Price Prediction and Sentiment Analysis (Using Python)

Programming tools – Exercise on "Time Travel Stocks" Problem (Using Python)

Statistical Modeling – Exercises on Statistical Modeling Problems (Using R)

Bio-data - Android Application for Melanoma Classification (Using Python for Machine Learning Part)

Security and Privacy - Cryptography via Cryptool 2

Deep Learning - Black-box ripper, a method for transferring knowledge from black-box models (Using Python in Aris supercomputer)

Big Data - Big Data Processing (Using Spark SQL, Map Reduce, hdfs, rdds)

Data Driven Models - Outlier Detection for excessive driving behavior (Using Python)

Parallel Architectures – Exercises on Open MP, Cuda, FPGAs

Stochastic Processes and Optimization - Linear/Polynomial Regression, K-means, Logistic Regression, PCA, Markov Chains, Hill Climb, Restricted Boltzmann Machine, Simulated Annealing, Bellman-Ford, DNS Water Torture, Q-learning, Metropolis Hastings, RBF, Random Forests (Using Python)

Computational Statistics - Monte Carlo Simulation, Bootstrap, Reverse Method, Rejection Method, Epanenchnikov Kernel, Newton Raphson, Polya Distribution, Linear Regression (Using R)

14/10/2019 – 19/10/2019	**SAS Data Science Hackathon –** Athens University of Economics and Business, Greece Winner of the contest, among MSc and PhD Students from all over Greece.
09/2015 – 02/2020	**University projects (BSc):** aircraft database in java, web development, personal website connected to pedagogics, aircraft radio - communication system analysis, Bachelor thesis on blockchain security and privacy

SEMINARS - CERTIFICATIONS

10/2024	**Microsoft Certified: Implementing Analytics Solutions Using Microsoft Fabric DP-600**
03/2024	**Microsoft Certified: Power BI Data Analyst Associate PL-300**
01/2024	**Microsoft Certified: Azure Data Scientist Associate DP-100**
02/2023	**Microsoft Certified: Azure AI Fundamentals AI-900**
02/2023	**Microsoft Certified: Azure Fundamentals AZ-900**