



Alexandros Deligiannis

R&D | Big Data Engineer

With 6+ years of experience and a passion for continuous learning, I am a motivated data scientist adept in all facets of corporate research and development. I am highly organized, adaptable, and skilled in time management and prioritization. I thrive in fast-paced environments and constantly update my skills to deliver exceptional results for my team and clients.

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WORK EXPERIENCE

Data Engineer | Research Associate CERTH / Hellenic Institute of Transport [↗](#)

04/2022 - Present

Achievements/Tasks

- Designing data pipelines - ingestion, processing, storing
- Creating ad-hoc RESTful APIs
- Conducting data modeling and preparing production-level system architectures
- Applying machine learning predictive models and time-series forecasting methods
- Working with NoSQL and SQL Databases
- Building interactive dashboards in Python Dash with extensive use of HTML and CSS components
- Designing evaluation approaches through A/B testing and proper KPIs selection

Machine Learning Engineer

Apifon [↗](#)

05/2018 - 03/2022

Achievements/Tasks

- Built predictive analytics models on large-scale data with Apache Spark & Apache Kafka in both Python and Scala.
- Deployed web applications on top of GDPR compliant architectures on AWS EC2, Azure Cloud and IBM Cloud clusters.
- Participated in EU projects conducting targeted research combined with journal publications and academic presentations.
- Designed case-specific evaluation pilots through A/B testing.
- Implemented personalization services: (1) automatic scheduling of ideal date of sending promotional messages, (2) message content enrichment, (3) find the most efficient customer segment for sending a message, (4) estimation of the customer loss risk score at a given time, (5) personalized mechanical interactive communication, and (6) prediction of the customer percentage that will open the link in the message. [↗](#)

Data Science Analyst

Baresquare [↗](#)

02/2017 - 04/2018

Achievements/Tasks

- Optimized the in-house software forecasting algorithm for customized predictive analytics and created algorithm prototypes.
- Contributed to the creation of the official sports analytics dedicated chatbot for EuroLeague 2017 Final Four - Python scripting & Natural Language Processing.

EDUCATION

MSc Big Data Science

Queen Mary University of London

09/2015 - 10/2016

BSc Mathematics

Aristotle University of Thessaloniki

09/2010 - 06/2014

SKILLS

Python

Scala

Flask

Dash

Apache Spark

Apache Kafka

Azure

AWS

SQL

NoSQL

PERSONAL PROJECTS

Automated Article Finder [↗](#)

- Get relevant published journal articles given plain text.
- NLP based on Python and Flask web application framework.
- 10 most relevant published articles showing the following schema: {Title, Year, Authors, DOI, Reference Count}.

GoogleMapsSearch App [↗](#)

- Targeted business search (restaurant, coffee and food) around a specific area by inserting a given address and the desired radius.
- Built with R Shiny and hosted on shinyapps.io server.
- Results contain the most updated list of the business names, their address, customer ratings and any available contact details.

Football odds reliability predictor [↗](#)

- Extracting the most trustworthy football game of all the scheduled English Premier League matches for tomorrow.
- Based on all the historical betting odds data from season 2000/2001 onwards.
- Scraping the William Hill bookmaker page and bringing the list of all the scheduled English Premier League tomorrow's matches along with their offered odds for each potential outcome Home/Draw/Away.
- Built with Python utilizing the Facebook's Prophet forecasting algorithm.

PUBLICATIONS

Designing a Real-Time Data-Driven Customer Churn Risk Indicator for Subscription Commerce [↗](#)

Predicting the Optimal Date and Time to Send Personalized Marketing Messages to Repeat Buyers [↗](#)

Building a cloud-based regression model to predict Click-Through Rate in business messaging campaigns [↗](#)

Predictive personalization of conversational customer communications with data protection by design [↗](#)

LANGUAGES

English

Full Professional Proficiency

Greek

Native or Bilingual Proficiency

ADDITIONAL INFO

Microsoft Azure Data Fundamentals Certification

Fulfilled military obligations