

MARIA KARANASOU

MACHINE LEARNING ENGINEER

PERSONAL INFORMATION

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GitHub

github.com/mkaranasou



karanasou.medium.com

EDUCATION

MSc In Network-Oriented
Information Systems
(9.07 / 10)

2012-2015

Network Oriented Architecture

[Sentiment Analysis in Social
Media: Figurative Language in
Twitter](#)

University of Piraeus

BSc In Technology Education &
Digital Systems (7.05 / 10)

2003-2008

Computer Science - E-learning
Conflict Resolution in Project
Management

University of Piraeus

PUBLICATIONS

SENTIRE ICDM '16

[Scalable and Real-time
Sentiment Analysis of Twitter
Data](#)

SemEval 2015

[DsUniPi: An SVM-based
Approach for Sentiment
Analysis of Figurative Language
on Twitter](#)

EXPERIENCE

Lead Software Developer at Deflect Labs, Remote Work

MAY 2018 - Present

Conceptualize, create and evaluate [Baskerville](#), an open-source analysis engine for [Deflect](#), that uses **Machine Learning to identify abnormal traffic and attacks as they happen**. Responsible for the **architecture**, the **dev-team tasks and prioritization**, the **cluster set up**, component **deployment**, **performance evaluation** and **tuning** for both **ML** and **Infrastructure**.

PYTHON • KAFKA • SPARK • SPARK ML • SCIKIT-LEARN • PROMETHEUS • GRAFANA • POSTGRES • ELK • DOCKER
EQualitie / Canada - Human Rights / Information Security

Tech Consultant - Voluntary, Remote Work

SEPT 2017 – MAR 2019

Provide consultancy and tech expertise to "Hitting Home?" project - domestic violence prevention.

NODEJS • VUE • MYSQL • PYTHON • ANGULAR Hitting Home CIC / England - Community Sector

Machine Learning Engineer

OCT 2016 – MAY 2018

R&D - **Machine Learning experiments**. Adapt core functionality & **algorithms** to work in a **distributed way** using **Spark**. PYTHON • FLASK • SCIKIT-LEARN • NUMPY • SPARK • ELK • PANDAS • D3.JS

Encode / Greece - Security Analytics & Cyber Security Operations

Software Engineer

SEPT 2014 – OCT 2016

Design, implementation and **maintenance** of code generation projects. Data mapping and Integration with ML techniques. C# • .NET • MVC • JS FRAMEWORKS • SCIKIT-LEARN • NLTK • PYTHON

CLMS UK Ltd / Greece - Information Technology and Services

Machine Learning Researcher - Remote Work

JUNE 2015 – OCT 2015

[Scalable and Efficient Analytics for Big Data](#): Design and implementation of a **Sentiment Analysis algorithm** and its adaptation to **real-time demands**. Cluster set-up and management.

APACHE STORM • JAVA • NLTK • SCIKIT-LEARN • REDIS • DJANGO • MONGODB • MYSQL

University of Piraeus Research Center / Greece – Education

Software Engineer

JULY 2013 – SEPT 2014

Maintenance & Troubleshooting of existing code. Development & testing of new features. Data Aggregation for KPI / statistical purposes. C • C++ • JAVA • TNSDL • TTCN • ROBOT • PYTHON

Nokia / Greece - Data networking / Telecommunication equipment

IT Engineer

JAN 2009 – JULY 2013

Server & Database Administrator, Software/ Hardware Troubleshooting/ Testing, Legacy Application Migration, Software development. C# • SQL ♦ Ionios Brokers S.A. / Greece - Insurance, Finance