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Bayesian Machine Learning Engineer  
Jr. Quantitative Developer

## SKILLS

- Python 
- SQL 
- Pandas 
- Django 
- Docker 
- Kubernetes 
- AWS 
- Google Cloud 
- Selenium 
- Bayesian Inference 
- FBprophet 
- Dask 
- Optuna 

## LANGUAGES

- Italian 
- English 
- Spanish 

## CONTACT



• E-mail:  
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• Personal web site:  
<https://eracle.me>

## PROFILE

I am a Machine Learning Engineer, working as a consultant since 2016, having shifted over different roles such as Data Architect, Software Developer, Data Scientist, DevOps and Scrum Master.

I have worked on all aspects of data management such as Retrieval, Storage, Cloud Scaling, Analysis and Mining; encompassing Web Scraping, Design of Relational Databases, Deployment of Cloud Infrastructure, RESTful interfaces and Jupiter Notebooks.

In 2019 I left consultancy to become a quantitative developer.

During my career, I also contributed on two scientific papers on the field of Web Scraping and Data Visualization.

## WORK EXPERIENCE

### Consultant, Remote (2017 - 2019)

#### Data Architect

Worked with more than 10 international clients on Upwork.com receiving 5/5 stars as median feedback.

Some stories:

- Designed an image similarity search engine with near zero response time, indexing more than 40 000 imgs by using Approximate Nearest Neighbors data structure;
- Reduced client's cloud infrastructure costs by dockerizing a django app and migrating from Digital Ocean to Google Cloud;
- Built a django app with 83% testing coverage by using Test Driven Development.

### Legalkite Ltd, Zurich (2016 - 2017)

#### Back-end Software Engineer

Design of several RESTful endpoints;  
Improved 10x REST API response time by translating django ORM queries into raw SQL queries;

Solved data inconsistency bugs by:

- Refactoring postgres schema;
- Making Elasticsearch a read-replica;

Scaled 100x scraping module by porting it to scrapy and scrapinghub.

### SpazioDati, Pisa, Italy (2015-2016)

#### Machine Learning Engineer

Design of a Human-in-the-loop Active Learning workflow using CrowdFlower API (now Appen).  
Increased 2x F1-score in Logistic Regression model used for Named Entity Linking by using Uncertainty Sampling.

### Synthema, Pisa, Italy (2014-2015)

#### Software Developer

Productionize Natural Language Processing steps:  
Segmentation, Tokenization, POS, Stop Words, Dep.Parsing, NER;  
(Romanian, Japanese, Chinese and German)  
EU funded (5.6 Mln €) project: CAPER.

## EDUCATION

### Bachelors Degree (2019 - 2020)

#### Statistics & Data Science

Università di Palermo, Italy

Financial Mathematics, Finance Theory, Multivariate Analysis, Inference, R Language, Probability.

### Masters Degree (2011 - 2013)

#### Data Science and Business Informatics

University of Pisa, Italy

Thesis on Natural Language Processing:  
Applying Active Learning on Entity Linking.

### Bachelors Degree (2007 - 2010)

#### Computer Science

University of Pisa, Italy

Thesis on Natural Language Processing:  
Document classification using lexical and semantic resources.