

# Saloua Litayem | Eng., MSc.

Munich – Germany

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## Experience

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### Scout24 AG

*Senior Machine Learning Engineer*

*December 2017 – Present*

- AI-Platform Features Implementation and maintenance
- Productionizing new Cars Price Estimation model for Autoscout24: API implementation, Continuous integration for new trained models, API monitoring and efficiency evaluation.
- Productionizing new Property valuation model for ImmobilienScout24.
- Mentoring and bringing together the Data Product Engineering crew.

*Tools:* Python, Docker, AWS, Datadog, Jenkins

### Scout24 AG

*Senior Data Landscape engineer*

*August 2017 – December 2017*

- Implementing a solution to ingest EMR logs to Alation Data Catalog via its QLI API
- Designing and implementing new cars price estimation API

*Tools:* Python, Docker, AWS, Datadog, Jenkins

### Adnymics GmbH

*Senior Data engineer*

*December 2016 – July 2017*

- Designing and Building logging centralisation and data extraction
- Designing and implementing new in-house Business intelligence service.
- Features development for the in-house Recommender system

*Tools:* Python (Numpy, Pandas), Redis, Jenkins, Ansible, Flask, Docker, PostgreSQL, logstash, Kafka, Kibana

### Adnymics GmbH

*Senior Software engineer*

*February 2016 – November 2016*

- Implementing a rule engine for dynamic coupon campaigns selection
- Implementing a Redis based priority jobs queue for personalised brochures printing.

*Tools:* Python, Redis, Jenkins, Ansible, Flask, Docker, PostgreSQL

### Cliqz GmbH

*Software/Data engineer, Machine Learning, Data mining*

*December 2013 – December 2015*

- Mining large scale user click events (EMR)
- Mining social data (Facebook, Twitter) for News Integration
- Implementing content based soft-404 web pages detector.

*Tools:* Python, Redis, AWS, Fabric, Docker, Jenkins, Graylog, NLTK, scikit-learn

### INRIA & Télécom ParisTech

*PhD Candidate - Content based image search*

*October 2009 – October 2013*

Large scale supervised image retrieval through hashing methods.

## University Paris Descartes

*Teaching assistant*

September 2012 – August 2013

## INRIA

*Master research Intern*

July 2008 – July 2009

Large scale object retrieval on local visual features.

- Introduction of an Efficient boosting strategy that aims to render the retrieval time sub-linear when using local feature representations of images.
- A new relevance feedback (RF) mechanism that has the originality to work on image regions freely selected by the user

Highlighted skills: C++, O.O, design patterns, QT3, image retrieval, computer vision

## INRIA

*Software Engineer Intern*

March 2007 – August 2007

- C++ API for Content Based Image Retrieval (CBIR) search engine.
- CBIR web application with text search interaction feature using yahoo API to get starting point image example.

Highlighted Skills: C++, JAVA, Java Server Faces(JSF), UML, O.O Design Patterns

## Technical skills

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**Programming Languages:** Python, C/C++

**Databases:** NoSQL (Redis, MongoDB), SQL (PostgreSQL, MySQL, Oracle)

**Cloud computing / Big data:** Spark, Kafka, Cassandra, AWS (EC2, S3, EMR, CloudFormation, API Gateway, Sagemaker, ...)

## Education

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### Télécom ParisTech/INRIA

*PhD candidate in computer science*

**France**

2009–2013

*Research Topic:* Large scale supervised image retrieval through hashing methods.

### Higher Institute of Computer Science

*Master of Research Degree with Honors*

**Tunisia**

2007–2009

*Research Topic:* Large scale supervised image retrieval through hashing methods.

### Higher Institute of Computer Science

*University Degree in Technology and Software Engineering Degree with Honors*

**Tunisia**

2001–2007

## Research

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### Publications.....

Saloua Litayem, Alexis Joly, and Nozha Boujemaa. Interactive objects retrieval with efficient boosting. In *ACM Multimedia*, pages 545–548, 2009.

Saloua Litayem, Alexis Joly, and Nozha Boujemaa. Hash-based support vector machines approximation for large scale prediction. In *BMVC*, pages 1–11, 2012.

### Summer Schools.....

**INRIA Visual Recognition and Machine Learning Summer School:** France , Grenoble 2012 & Paris 2011 (ENS/INRIA)

**International Computer Vision Summer School:** Italy, Sicily 2010

Saloua LITAYEM

## MOOCs

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- **Scalable Machine Learning (Spark)** by Databricks on edX - July 2015
- **Data Manipulation at Scale: Systems and Algorithms** by University of Washington on Coursera - November 2015
- **Cluster Analysis in Data Mining** by University of Illinois at Urbana-Champaign on Coursera - Jun 2015
- **Cassandra for Developers** Pluralsight - February 2017
- **MongoDB for Developers & MongoDB for DBAs** by MongoDB - February 2017

## Languages

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**English, French, Arabic:** Professional working proficiency

**German:** Limited working proficiency

*Deutsch-Test Für Zuwanderer (DTZ) Zertifikat B1*

## Organizations

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**PyData Munich & PyLadies Munich Meetups:** Organizer