Claudio Scalzo

SOFTWARE ENGINEERING AND DATA SCIENCE STUDENT

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Born in Italy in 1994. Passionate about data science and software development. Strong analytical thinking and team-working skills. Successful academic results due to the passion for these topics and the high precision in on-time fulfillment of projects, tasks and assignments.



Education

Master's Degree in Data Science and Engineering

EURECOM / TELECOM PARISTECH

• Double Degree programme between Telecom ParisTech and Politecnico di Torino

Sophia Antipolis, France

Sep. 2017 - Mar. 2019

Master's Degree in Software Engineering

POLITECNICO DI TORINO

with Master Thesis on: "Leveraging Machine Learning driven Data Matching techniques for an Azure Data Lake"

Turin, Italy

Sep. 2016 - Mar. 2019

Bachelor's Degree in Software Engineering

POLITECNICO DI TORINO

• with the highest grade, 110/110

Turin, Italy

Sep. 2013 - Jul. 2016

Experience

SAP France

Paris, France Jul. 2018 - Dec. 2018

DATA ENGINEER INTERN

- Provisioned...
- Built...
- · Implemented...

Projects

Team leader for an optimization project for TIM / SWARM Joint Open Lab

GITHUB.COM/CLAUDIOSCALZO/COIOTE

- Solving of a VRP (Vehicle Routing Problem) optimization problem proposed by TIM and the SWARM Joint Open Lab, for an IOT project named ColoTe. Multistart tabu-search approach, written in Java (with the OpenTS Java library).
- Achieved 1st position in the final ranking. Secured great comprehension of metaheuristics. Improved algorithmic and team-working skills.

Virtual Assistant for answering music related questions

GITHUB.COM/D2KLAB/MUSIC-CHATBOT • CHATBOT.DOREMUS.ORG

- Developing of a virtual assistant (in the chatbot and vocal assistant forms), capable of answering music related questions and providing detailed graphical results. Informations extracted from the *DOREMUS* knowledge base, queried using the *SPARQL* language.
- Built using *Node.js* code with the *BotKit* framework. Used and trained Google's *Dialogflow* as NLP. Interfaced with the *Facebook Messenger*, *Slack* and *Google Assistant* clients, using the respective APIs.
- Did two pull requests (accepted and merged) to the **botkit-middleware-dialogflow** author, for concurrency and language support.

House prices Kaggle challenge: predicting sales prices with advanced regression techniques

GITHUB.COM/LOMLUCA/AML

- Solution of one of the most famous Kaggle challenges, developed during the AML (Algorithmic Machine Learning) course at EURECOM.
- Top grade on the course ranking, thanks to smart preprocessing techniques (like PCA and DBSCAN for outlier removal), and stacked models.
- $\bullet \ \ \text{Written in } \textit{Python}, \text{ using } \textit{Pandas DataFrames for the data structures and } \textit{scikit-learn for the modeling phase}.$

Challenge on the Fashion-MNIST and CIFAR-10 datasets: Naive Bayes Classifier and Bayesian Linear Regression GITHUB.COM/CLAUDIOSCALZO/ASI-CHALLENGE

- Solution of the ASI (Advanced Statistical Inference) course. Implemented (from scratch) the Naive Bayes Classifier and the Bayesian Linear Regression. Used in the classification tasks of the Fashion-MNIST and CIFAR-10 images datasets.
- Written in Python using NumPy and Pandas. Achieved extremely satisfying results in terms of accuracy and computational efficiency.

Skills

 $\textbf{Languages} \quad \text{Python (+ NumPy, Pandas, scikit-learn, Keras, TensorFlow, PySpark, Spark MLlib)} \bullet \text{C} \bullet \text{Java} \bullet \text{SQL}$

Big Data Apache Spark • MapReduce & HDFS • NoSQL Architectures • Data processing (cleansing, analysis)

.. Internship Skills...

Machine Learning Deep Learning (NN, CNN, RNN) • Probabilistic Machine Learning (Bayesian Classification, Regression, Mixture Models)

OS & Tools GNU/Linux (+ Bash, AWK, Sed) • Git • Jupyter Notebook • Dialogflow (+BotKit) • MATLAB • LaTeX