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

Sep. 2016 - Mar. 2019

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

Turin, Italy

Turin, Italy

Sep. 2013 - Jul. 2016

Bachelor's Degree in Software Engineering

POLITECNICO DI TORINO

• with the highest grade, 110/110

Experience

SAP France Paris, France

DATA ENGINEER INTERN Jul. 1, 2018 - Dec. 31, 2018

- · Worked on the SAP Mass Data Extension team, adding external data ingestion and master data matching in the MDE Azure Data Lake.
- · Wrote Python code leveraging machine learning techniques, exploiting the distributed computing offered by the HDInsight clusters equipped with the Hortonworks Hadoop and Apache Spark.
- · Managed Jenkins pipelines for both testing and production environments, providing help and support during the daily team operations, troubleshootings and solution proposals.

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. is 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.
- Written in Python, using Pandas DataFrames for the data structures and 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.



Languages Python (+ NumPy, Pandas, scikit-learn, Keras, TensorFlow, PySpark, Spark MLlib) • C • Java • SQL Big Data Apache Spark • MapReduce & HDFS • NoSQL Architectures • Data processing (cleansing, analysis)

Distributed cluster computing (Hadoop HDInsight, ADLS, PySpark) • Jenkins continuous delivery • NLP

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