




PIETRO PASSARELLA

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I am a Data Scientist with a background in aerospace engineering actively looking for a new role in Berlin or in Germany. I want to work for a mobility company or startup looking to reduce our carbon footprint and enhance the customer experience. I am skilled at explaining technical topics to non-technical stakeholders.




TECHNICAL SKILLS

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|-------------------------|---|
| Data Science | Python, Bash, SQL, Metabase (Python 3+ years: Pandas, Numpy, Matplotlib, Seaborn, scikit-learn) |
| Machine Learning | Regression, Classification, Time Series Analysis, Neural Network, Cloud service: AWS |
| Deployment | Keras, TensorFlow, Docker, Flask, Git (version control) |
| Mathematics | Calculus, Linear Algebra, Statistics (e.g., A/B test, confidence intervals, error calculation) |
| Aerospace | Structural Engineering, Analytical Mechanics, Orbital Mechanics, Flight Dynamics, Fluid Mechanics |

PROJECTS

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| Price prediction based on regression | Housing Price Predictions Supervised Learning (Gradient Boosting Regression, CNN1-d & DNN) Pre-processing using RFE, PCA Tools: Tensorflow, Matplotlib, Seaborn, scikit-learn |
| Real-time prediction of departures and delays | Subway departures (S+U Alexanderplatz) Implementation of a dockerized data pipeline with the following workflow: Collect departure information from BVG Berlin & Brandenburg rest API using Requests module. Store the retrieved information in MongoDB. Build an ETL job to: <ul style="list-style-type: none">- extract the departures from MongoDB- transfer the info to Postgres database- make constant queries to keep the delay information up to date- post via a bot |
| Recommender System (Group Project) | Movie Recommender System Built a movie recommender with a web interface utilizing the small movielens dataset, which includes a collection of 9742 movies previously rated by 610 users. The aim of the project was to explore and utilize the surprise library and surprise's famous SVD algorithm, then show our outcomes via a web app built with flask. |
| SQL - Docker | SQL – Docker Built a database which consists of three tables with all the employees information and made some queries. Everything running inside docker containers and orchestrated with docker-compose Tools: Docker, PostgreSQL, sqlalchemy, |

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EDUCATION

- 2021 Data Science Bootcamp
Spiced Academy, Berlin
- 2020 Bachelor Degree in Aerospace Engineering
Politecnico di Milano



WORKING EXPERIENCE

- 2020-2021 Tutor, Special for Needs Student – Polymnia S.R.L., Verona, Italy
Taught STEM subjects (Maths, Physics, Calculus, Linear Algebra, Classical Mechanics) to students with learning difficulties (dyslexia, dyscalculia, demotivation) and enabled them to improve their grades by adopting a customized study method.
- 2010 - 2019 Opera Festival, Verona, Italy
Early career in the entertainment and music industry (e.g., stage support, sound engineer)
Music Degree: Jazz Trumpet, Scuola Civica Jazz Milan, Italy

LANGUAGE SKILLS

- English* Fluent
Italian Mother tongue
German Beginner

INTERESTS

Literature, Art, Jazz, African American culture, Revolutionary Women, Cycling, Mountain Climbing

