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

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

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: - 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. 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