







Davide Placido

PostDoc, Biomedical engineer

About

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Machine learning

Advanced

Pytorch Keras Scikit-learn
Numpy Pandas Google Colab
🧠 Transformers

Programming

Advanced

Python R SQL

Intermediate

Bash LaTeX JavaScript Matlab

Basic

C Rust Assembly

Data management

Advanced

Snakemake PostgreSQL
duckDB BigQuery Json Git

Cloud

Intermediate

GCP AWS On-premise

DevOps

Intermediate

Github actions Docker CI/CD

Languages

Italian (Native speaker)
English (Fluent)
Danish (PD3)

Summary

I am a biomedical engineer with a strong interest in data science in healthcare. With a PhD in bioinformatics and biostatistics, I have expertise in developing machine learning models and handling heterogeneous biomedical data. Now, I am eager to leverage my research experience and translate these innovative applications into real-world solutions.

Experience

University of Copenhagen

Postdoctoral researcher

02/2023 - Present

Building on previous work, I am working on the development of DL models for cancer detection using new data modalities.

University of Copenhagen

Research assistant and PhD

04/2019 - 01/2023

NLP Neural networks Entity embeddings ICU Pancreatic cancer Medical images

In this period I conducted research at the Novo Nordisk Center for Protein Research. I have been actively working on various projects encompassing machine learning applications on diverse and unique datasets, including registries, electronic health records and medical images. Notably, I worked on the development of models for early detection of pancreatic cancer using patients' disease history from the Danish registries. I also worked on the development of a decision support tool for detecting clinical deterioration using EHR collected in the general departments. Other projects involved survival analysis in the ICU and pharmacovigilance using NLP techniques.

Harvard medical school

Visiting researcher

01/2022 - 07/2022

generalizability GCP cloud computing

This experience was part of the change of research environment of my PhD. In this period I visited Chris Sander's lab in Boston, continuing working on pancreatic cancer prediction. In particular, the aim of my visit was testing the generalizability of the model trained on the Danish data on a US dataset. To accomplish this, I had to deploy the ML model on a new cloud, Google cloud platform, and develop a new pipeline for the data preprocessing.

Technical university of Denmark

Research master student

09/2018 - 02/2019

time-series ICU monitors empirical mode decomposition LSTM

This research project was part of my master thesis. In this period my task was to try improving current mortality risk models in the intensive care unit (ICU). In particular, I worked on time-series collected by monitors in the ICU to enhance an LSTM model using hand-crafted features from high-frequency data.

Education

Polytechnic University of Turin

Turin, Italy

01/2017 - 01/2019

Master degree Biomedical engineering

Polytechnic University of Turin

Turin, Italy

01/2013 - 01/2017

Bachelor degree Biomedical engineering

Publications

A deep learning algorithm to predict risk of pancreatic cancer from disease trajectories

05/2023

Nature Medicine

Placido D, Yuan B, Hjaltelin JX, Zheng C, ..., Brunak S, Sander C

Development of a dynamic prediction model for unplanned ICU admission and mortality in hospitalized patients

06/2023

PLOS digital health

Placido D, Thorsen-Meyer H-C, Kaas-Hansen BS, Reguant R, Brunak S.

Discrete-time survival analysis in the critically ill: a deep learning approach using heterogeneous data

09/2022

Nature digital medicine

Thorsen-Meyer HC, Placido D, Kaas-Hansen B.S, Nielsen AP, .. Perner A, Brunak S

Language-agnostic pharmacovigilant text mining to elicit side effects from clinical notes and hospital medication records

07/2022

Basic and Clinical Pharmacology and Toxicology

Benjamin Skov Kaas-Hansen, Davide Placido, Cristina Leal Rodríguez, ..., Stig Ejdrup Andersen

Certificates

 DevOps, DataOps, MLOps
Duke University

05/2023

 Enterprise Model Deployment
IBM

05/2021

 ML, Visual Recognition and NLP
IBM

05/2021