

ALESSIA SIMONE

Data Scientist

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in alessia-s2

ACADEMIC PROJECTS

VPD - Voice Pathology Detection

Detecting the presence of voice pathology with ESP32 device throw 5 seconds of "a" sound

1 2023

Smart Agriculture - Automatic Gardening and Watering System

Automatically turn on the water pump based on soil moisture and temperature algorithm with ESP32

2023

Smart HealthCare - CPS for Stress Detection Wearable prototype for my master thesis project to detect stress peaks at 94% of accuracy from biometric measurements

Tumour Brain MRI Generation

Conditional LS-WGAN Implementation of rumoured and normal brain MRI with FID of 106.8

Hand-Held Object classification

Image classification with distribution shift throw CNN, implemented without the usage of bounding boxes with an accuracy of 70%

Depression Epidemiological Analysis

Utilized statistical models to analyze dietary survey data, identifying an association between depression and bad eating habits with eggs, fish and pickles as good candidates to reduce depression

Fetal Health Classification

Classification of the fetal health status as a binary problem on about 2000 with supervised, unsupervised and semi-supervised techniques, reaching a maximum accuracy of 90%

PIMA Indians diabetes prediction

Binary classification of diabetes presence on about 500 individuals, detecting random forest as the optimal model with 90% of accuracy

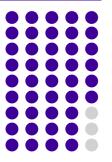
Type of Glass Analysis

Classification of eight different types of glass with VEV modelbased clustering, detecting 5 clusters with BIC of -1323

SKILLS

Python SQL R MatLab Netlogo Google Cloud C++ Apache Spark

Microsoft Azure



LIFE PHILOSOPHY

"In the midst of chaos, there is also opportunity."

EDUCATION

M.D. in Data Science - Curriculum Data Driven and Application for IoT University of Catania

□ 2023

B.D. in Economics and Management of Tourism Enteprises
University of Catania

□ 2021

CERTIFICATES

English for Specific Purposes (Smart Cities and Smart Grid)
Politechnika Poznańska

English Certificate 74/100 (C2 Proficient)

EFSET English Certificate

Goethe-Zertifikat B2
Goethe Institut

Structuring for Continuity, Growth and Internationalization

SDA Bocconi

Innovation Management and Entrepreneurial Processes

Bologna Business School

Business Intelligence and International Development in the post-Covid era LUISS Business School

STRENGTHS

Adaptable Resilient Determinate

Team-Work Positivity-spreading

LANGUAGES

