MATHEMA

DIGITAL INNOVATIONS

OUR MISSION

Mathema is an **official Innovative company** whose mission is to create and provide value to digital innovations.

RESEARCH & DEVELOPMENT

INNOVATION IS THE CORE ACTIVITY OF MATHEMA.

While taking part to big projects, we face big issues and develop big innovative solutions

TWO REMARKABLE AREAS OF CURRENT RESEARCH ARE:

HUMAN BEHAVIOR MODELLING

Through multiple and co-ordinate state machines. Our human behavior model has been widely used to represent the particularly various and complex phenomenon of the Italian citizens in the whole world.

LARGE DATABASE CLEARING AND EXPLORATION

Since we work with big organizations such as public institutions, we developed the ability to handle with very large databases and big data.

INNOVATION

AI

Machine Intelligence

DATA SECURITY

Blockchain,
Machine Learning security

VR/AR

Virtual/Augmented Reality

BIG DATA

Collection, Management,
Mining, Analytics

www.mathema.com

ACHIEVEMENT

HOMEUM

Achievement AI

FIND IT – GEOSPATIAL DATABASE

Achievement big data

DAVINCIFACE AI PROJECT

Achievement AI

CISC PROJECT

Achievement AI big data VR/AR

RI.FOR.MED.

Achievement App

GIP – IT MANAGEMENT PROCEDURES

Achievement App

REASSET

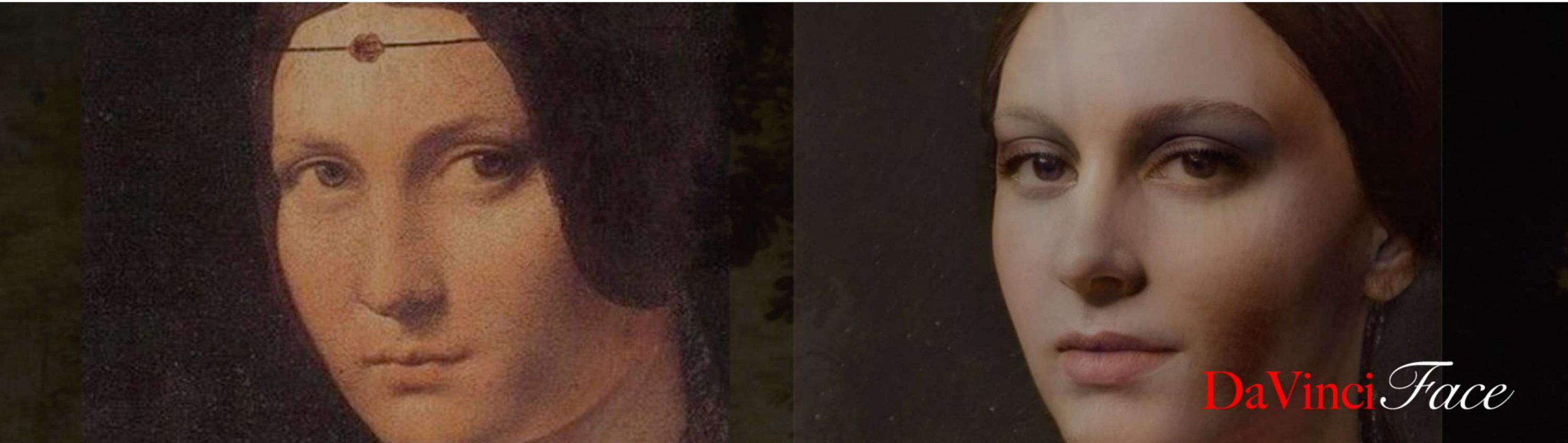
Achievement blockchain

REPLICATE

Achievement App iot

DAVINCIFACE - ARTIFICIAL INTELLIGENCE

DaVinciFace is a software - based on the most innovative techniques of Artificial Intelligence, in particular on GAN (Generative Adversarial Network) - which aims to capture Leonardo's pictorial style and to attribute it to faces, mainly female, to create portraits in the Leonardesque style (eg La Belle Ferroniére, the Mona Lisa).



MATHEMART - AI AND THE ARTS

MathemArt is the division of Mathema – an innovative company based in Florence, Italy, – aimed at pursuing an original path of Artificial Intelligence (AI) and Fine Arts, inspired by the Florentine Renaissance tradition to empower all human creative activities.

CURRENT EXPERIMENTATION

RECOGNITION OF THE VOTE

in ballot papers

ALARM SYSTEMS

for violation of safety procedures in the access of machine tools;

WATER GUN

water consumption detector;

TALKING TEXTILE

recognition of clothing and objects for the circular economy;

HOMEUM

system of recommendations for the rental of works of art;

SUPER HUMAN PIZZA CHEF

preparation of traditional Neapolitan pizzas;

SMART LAB ON THE CHIP

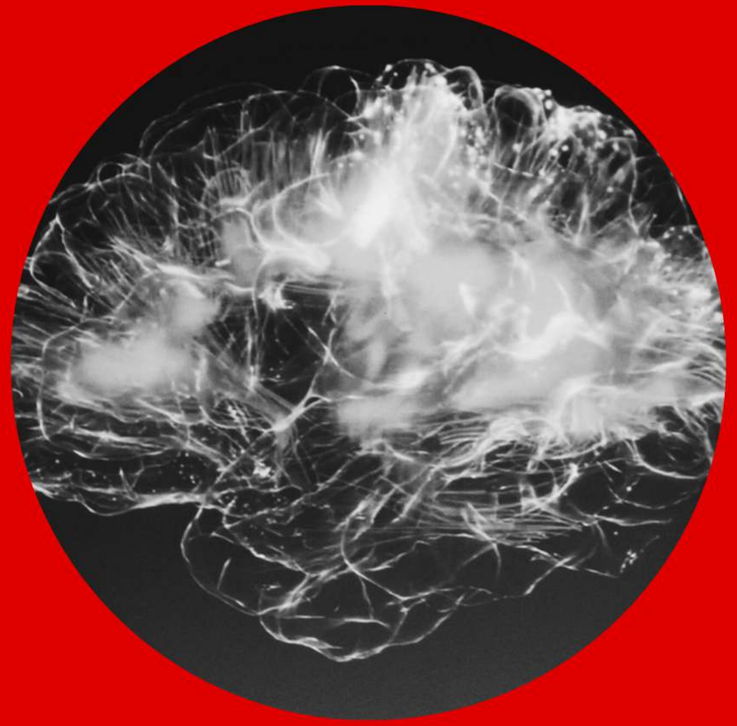
diagnostics of the top 10 diseases in the world;

ITALIAN AMBIENT LIVING

human house;

OUR PARTNERS

For more than 35 years, we have been working with leading partners in innovation to provide our technological services and know-how, in order to find innovative solutions to both new and old problems.



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