Republic of Tunisia
Ministry of Higher Education and Scientific Research
University of Carthage
Higher Institute of Information and Communication Technologies

M A S T E R T H E S I S

Submitted in Fulfilment of the Requirements of the degree of

Research Master's Degree

Mention : **Robotics, Computer Science and Communication Systems**
Specialty : **Data Science and Smart Services**

by
Mariem KAMMOUN

Data-driven Strategy based on Transformative Power of Data-science for the optimization of Solar Energy Generation and Integration into the Electrical Grid

Defended on October 22, 2024 in front of the Examination Jury composed of :

President :	Lazhar MANAI	ISTIC
Reviewer :	Zaineb TRABELSI	ISTIC
Supervisor :	Manef BOUROGAOUI	ISTIC

Realized within
QehnA Team - Power quality research with power electronics and advanced control
Laboratory of Electrical Systems, ENIT

University Year : 2023 – 2024