

# JUAN LUIS HIDALGO SANCHO

DATA SCIENCE | BIG DATA | MACHINE LEARNING | DEEP LEARNING |  
ARTIFICIAL INTELLIGENCE | - Freelance expert in ARTIFICIAL INTELLIGENCE  
for Industry 4.0

## Contact information

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## About me

Telecommunications Engineer by training, I define myself as an expert in detecting patterns, a key point to help organizations optimize their production processes. That is why my training has continued in the field of MACHINE LEARNING, BIG DATA and ARTIFICIAL INTELLIGENCE.

Within the world of Big Data, I define myself above all as a DATA SCIENTIST, since I love extracting knowledge from data.

Within the CLOUD infrastructures, I am an experienced user of AWS, a tool that I use to make my AI developments in the industry more efficient.

## Experience

### Freelance since 2007

- Artificial Intelligence for production processes: data analysis, solution design and process improvement.
- Industry 4.0: development and implementation of tools for the automation of production processes.
- IoT systems on AWS.
- Digital transformation: integration of new technologies in companies.
- Continuous improvement of processes: improvement of efficiency, effectiveness and effectiveness.

### Line operator in Porcelanosa from 2005 to 2007

- Production operator in different areas of the company.
- Responsible for the production of special parts

### Research fellow at UPV from 2003 to 2005

- Head of the IDEAS Institute at the Gandia Campus of the UPV.
- Training and advice to launch companies (Spin Off), based on studies and technology developed on campus.

## Education

### MIT Professional Education

INTERNET OF THINGS INDUSTRIAL: Sensory Intelligence and Smart Technology

- Conceive and assemble embedded IoT systems and sensors
- Limit and select
- Design IoT products
- Solve data science problems
- Devise solutions for the industry
- Learn to build complete systems
- Project and implement
- Use sensors

- Employ IoT technology

### **EDEM Escuela de Empresarios**

SUPERPYMES XPRESS. Business administration and management

- Business management model
- Business strategy
- Marketing \$ sales
- People
- Finance

### **MBIT School**

ADVANCED DEEP LEARNING PROGRAM

- Management of tools such as Tensorflow and Keras to be able to implement deep learning systems, implementing and designing neural models (narrow and deep) to solve modeling / classification problems.

### **EDEM Escuela de Empresarios**

DESIGN THINKING & LEAN STARTUP, TECH MANAGEMENT

- Design Thinking is a methodology that helps identify what the client needs and find innovative solutions.
- Lean Startup helps to assess its viability.

### **KeepCoding**

FULL STACK BIG DATA, AI AND MACHINE LEARNING BOOTCAMP

- Training focused on acquiring the necessary knowledge to implement any architecture and to carry out the necessary technical and analytical developments within the world of Big Data.

### **University of Cambridge**

BUSINESS AND ENTREPRENEURSHIP SUMMER PROGRAMME

- Business, management, marketing and related disciplines.
- General course on business creation, management and administration.

### **Universitat Politècnica de València (UPV)**

TELECOMMUNICATIONS ENGINEERING

- Specialty in Electronic Systems

## **Licenses and certifications**

### **AWS**

- AWS Summit Online
- AWS Cloud Practitioner Essentials Day

### **EDEM Escuela de empresarios**

- Design Thinking & Lean Startup

### **KeepCoding**

- GNU/Linux
- Cibersecurity for Pentesting

### **Linkedin**

- Google Cloud para for IT administrators
- SQL Server 2019
- Python for advanced data scientist
- R for advanced data scientist

- The Fourth Industrial Revolution
- DevOps essential
- PostgreSQL essential
- TensorFlow essential
- Advanced Scrum
- Power BI: visualization and reports
- IA: neuronal network

## Aptitudes

### General training

- Data science
- Machine Learning
- Process automation
- Cloud computing
- Software development

### Programming language

- Python
- R

### Architectures

- Google Cloud Platform (GCP)
- Amazon Web Services (AWS)

### Collaborative work

- Scrum
- DevOps
- GitHub
- Kanban

### Other software

- Linux
- Tableau
- NoSQL
- PostgreSQL
- PowerBI

### Frameworks and library

- BeautifulSoup
- Bokeh
- Boto3
- Django
- Flask
- gensim
- H2O
- Keras
- Matplotlib
- Mito
- NLTK
- NumPy
- OpenCV
- Paho MQTT
- Pandas
- Plotly
- PySpark
- Pytorch
- Scikit-learn
- SciPy
- Scrapy
- Shap
- Sktime
- SpaCy
- Streamlit
- TensorFlow
- XGBoost

## Courses

- Apache Spark Streaming con Python y PySpark
- Curso completo de Estadística descriptiva - RStudio y Python
- Curso completo de Inteligencia Artificial con Python
- Curso de Machine Learning para trading
- Curso de fondos mutuos, abiertos, cerrados y de cobertura
- Machine Learning: R y Python para Data Science
- Programa Gestor de carteras de inversión en R Studio
- Python for Finance: Investment Fundamentals & Data Analytics
- Python para Trading e Inversiones
- Scrum Master + Liderar Equipos Scrum y Ágil
- Curso Dashboards Interactivos con Python – [Dash & Plotly](#)
- Curso avanzado de Series Temporales con R y Python
- Desarrollo Web Backend en Python con Django

- Fundamentos IoT con Raspberry Pi
- Curso de Ciberseguridad en línea
- Curso de AWS programador certificado

## Remarkable projects

### DETECTION OF DISSATISFIED CUSTOMERS IN A TELECO COMPANY

- Using all the customer information available from a telecommunications operator, detect with artificial intelligence systems, those who may be dissatisfied, and become Deep Detractors.
- The result was the realization of a model with an efficiency of over 65%.
- Stack: Python, H2O, PySpark, Google Cloud, XGBoost, Shap

### MANAGEMENT OF LARGE VOLUME OF DATA IN THE BANKING SECTOR

- Using PySpark, perform mathematical calculations in a cloud architecture, to calculate customer risks in the banking sector.
- The result was the total automation of a process that was carried out manually.
- Stack: Python, SKLearn, PySpark, Jenkins, Pandas

### IT TRAINER

- Training for university and postgraduate students on the following topics:
  - Artificial Intelligence
  - Neuronal network
  - Keras/Tensorflow
  - PostgreSQL
  - Metaverse

### PRESS INPUT SYSTEM AT MEDIA SECTOR

- Design, implementation and subsequent maintenance of a written press input service for a media clipping company.
- The result is a constant improvement in work times, despite increasing workload.
- Stack: Python, SQL, Linux, Pandas

### ANALYSIS OF INEFFICIENCY IN AN INDUSTRIAL COMPANY

- Using Artificial Intelligence, analysis of inefficiencies in the production department of an industrial company, proposals for improvement and implementation of the same.
- The result was a huge improvement in EBIDTA.
- Stack: Python, SKLearn, AWS, Pandas, Matplotlib, Streamlit

### IOT AND ARTIFICIAL INTELLIGENCE IN THE CERAMIC SECTOR

- Project for the ceramic sector: the incorporation of IOT, Machine Learning and AI to production processes.
- Use of AWS for the deployment and scaling of the necessary architecture.
- The results are hopeful
- Stack: Python, SKLearn, AWS, IOT, Keras, OpenCV, Pandas, Matplotlib, Paho MQTT, Sktime, Streamlit