

# Manel Soler Sanz

Location: Valencia - Madrid (Open to remote)

LinkedIn | GitHub | Email: [manelbng@gmail.com](mailto:manelbng@gmail.com) | Mobile: +34 695508934

Personal Website: <https://sosanzma.github.io/>

## AI ENGINEER | DATA SCIENTIST | PHYSICIST |

With a strong background in Physics and a Master's in Data Science, I specialize in developing and implementing advanced AI solutions, with a focus on Multi-Agent Systems, Large Language Models (LLMs), and Retrieval-Augmented Generation (RAG) or Chatbots. For a more comprehensive overview of my work and interests, please visit my personal website: <https://sosanzma.github.io/>

## TECHNICAL SKILLS

Languages	: Python (3+ years), R, Matlab, C++
Frameworks	: TensorFlow, PyTorch, Keras, Linux, Windows, AWS, Jenkins, Airflow, Azure
Libraries	: scikit-learn, pandas, pyspark, Langchain, Hugging Face Transformers
Databases	: MongoDB, SQL, Vector DB
Dev Tools	: Docker, Git, Pycharm, VisualStudio, Cursor
AI/ML	: Multi-Agent Systems, LLMs, RAG, Deep Learning, ML Model Deployment

## EXPERIENCE

<b>AI Engineer</b> VRAIN - Valencian Research Institute for Artificial Intelligence	Feb 2024 – Present Valencia, Spain
<ul style="list-style-type: none"><li>Developing advanced Multi-Agent Systems for AI applications</li><li>Implementing and fine-tuning Large Language Models (LLMs) for specific tasks</li><li>Researching and applying Retrieval-Augmented Generation (RAG) techniques</li><li>Collaborating on cutting-edge AI research projects</li><li><b>Technologies used:</b> Llamaindex, Hugging Face Transformers, Langchain, Amelia</li><li><b>GitHub Repository:</b> <a href="#">Link</a></li></ul>	
<b>Data Scientist (13 months)</b> Solver Intelligent Analytics	Jan 2023 – Feb 2024 Valencia, Spain
<ul style="list-style-type: none"><li>Developed and deployed Deep Learning models (RNNs, CNNs, attention layers) for various business applications</li><li>Implemented real-time ML models using cloud services (AWS), focusing on scalable architectures</li><li>Led a route optimization project using advanced clustering algorithms and deep reinforcement learning</li><li>Applied state-of-the-art Deep Learning techniques to time series forecasting and resource planning</li><li><b>Technologies used:</b> TensorFlow, PyTorch, AWS, Pyspark, Jenkins, Airflow, MLFlow</li></ul>	
<b>Junior Data Scientist (6 months)</b> Solver Intelligent Analytics	Agosto 2022 – Jan 2023 Valencia, Spain
<ul style="list-style-type: none"><li>Developed time series prediction models using traditional ML and basic Deep Learning techniques</li><li>Gained hands-on experience in ML model deployment using Airflow and Jenkins</li><li>Assisted in prototyping ML-based solutions for various client projects</li></ul>	

## EDUCATION

<b>Universitat de Valencia</b> Master of Data Science	Valencia, Spain Sep 2021 – Feb 2023
<ul style="list-style-type: none"><li>Advanced coursework in Deep Learning, including neural network architectures, optimization algorithms, and regularization techniques</li><li>Master's thesis: Implementation of causal discovery methods for time series, applying deep learning techniques. <a href="#">Source Code</a></li></ul>	



- Specialization in theoretical physics. Thesis focused on NLP and symbolic AI
- Degree thesis: *Symbolic artificial intelligence: first order differential equations*
- Article published on IFIC's website about final thesis

## SELF-DRIVEN LEARNING & PROJECTS

---

### **AI-Powered Personal Projects** *Open Source Development*

2024 – Present  
Valencia, Spain

- Developed multiple AI-driven projects showcasing practical applications of NLP and LLMs
- Implemented advanced techniques including RAG, vector databases, and multi-agent systems
- Utilized key technologies: Langchain, Hugging Face Transformers, Deep Lake, OpenAI API
- Projects include:
  - **QA ChatBot with Source Verification:** GitHub
  - **LearnSherpa AI (Book Discovery Assistant):** GitHub

### **Completed Courses**

- \* Retrieval Augmented Generation for Production with LangChain & LlamaIndex
- \* LangChain & Vector Databases in Production
- \* Docker, from beginner to expert
- \* Amazon AWS: Complete Course Certified Solutions Architect
- \* Deep Learning Specialization - Coursera (Andrew Ng)

## LANGUAGES

---

**English** · Proficient  
**Spanish** · Native  
**Catalan** · Native  
**German** · Beginner