

Manel Soler Sanz

Location: Valencia, Spain (Open to remote)

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PHYSICIST | DATA SCIENTIST | AI RESEARCHER

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

AI Engineer <i>VRAIN - Valencian Research Institute for Artificial Intelligence</i>	Feb 2024 – Present <i>Valencia, Spain</i>
<ul style="list-style-type: none">Developing advanced Multi-Agent Systems for AI applicationsImplementing and fine-tuning Large Language Models (LLMs) for specific tasksResearching and applying Retrieval-Augmented Generation (RAG) techniquesCollaborating on cutting-edge AI research projectsTechnologies used: Llamaindex, Hugging Face Transformers, Langchain, AmeliaGitHub Repository: Link	
Data Scientist <i>Solver Intelligent Analytics</i>	Jan 2023 – Feb 2024 <i>Valencia, Spain</i>
<ul style="list-style-type: none">Developed and deployed Deep Learning models (RNNs, CNNs, attention layers) for various business applicationsImplemented real-time ML models using cloud services (AWS), focusing on scalable architecturesLed a route optimization project using advanced clustering algorithms and deep reinforcement learningApplied state-of-the-art Deep Learning techniques to time series forecasting and resource planningTechnologies used: TensorFlow, PyTorch, AWS, Pyspark, Jenkins, Airflow, MLFlow	
Junior Data Scientist <i>Solver Intelligent Analytics</i>	Agosto 2022 – Jan 2023 <i>Valencia, Spain</i>
<ul style="list-style-type: none">Developed time series prediction models using traditional ML and basic Deep Learning techniquesGained hands-on experience in ML model deployment using Airflow and JenkinsAssisted in prototyping ML-based solutions for various client projects	

EDUCATION

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

- 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