

# MIGUEL VÁZQUEZ

mvazquez.ai · Seville, Spain · miguel@mvazquez.ai · +34645153274

## WORK EXPERIENCE

<b>oga</b> <i>Data Scientist</i>	Seville, Spain June 2023 - Present
<ul style="list-style-type: none"><li>• Spearheaded the implementation of cutting-edge <b>generative AI models</b> in custom applications, demonstrating strong initiative and innovation skills. Developed personalized assistants using <b>Retrieval Augmented Generation pipelines</b> to leverage useful <b>unstructured and structured data</b>.</li><li>• Applied <b>statistical analysis and machine learning techniques</b> in a cross-functional team to diagnose <b>equipment failures</b> for Coca-Cola postmix dispensers. This data-driven approach resulted in a reduction in downtime across Spain and Portugal.</li><li>• Effectively <b>communicated complex technical findings to non-technical stakeholders</b>, including executive management and clients, demonstrating excellent presentation and interpersonal skills.</li></ul>	
<b>oga</b> <i>Data Scientist Intern</i>	Seville, Spain November 2022 - June 2023
<ul style="list-style-type: none"><li>• Conceptualized and executed <b>energy optimization models for industrial applications</b>. Conducted analysis of consumption patterns and proposed solutions, resulting in a <b>3% reduction in energy use</b>.</li><li>• Collaborated closely with senior data scientists and domain experts to ensure model accuracy and relevance, demonstrating strong teamwork and adaptability skills.</li></ul>	

## EDUCATION

<b>Universidad de Sevilla</b> MSc in Logic, Computation and Artificial Intelligence <i>Best Academic Record 2023</i>	Seville, Spain September 2022 - July 2023
<b>Bergische Universität Wuppertal</b> BSc in Mathematics	Wuppertal, Germany September 2020 - July 2021
<b>Universidad de Sevilla</b> BSc in Mathematics	Seville, Spain September 2017 - July 2022

## SKILLS

Data Science:	Supervised and Unsupervised Learning, NLP, Data Analysis & Visualization
AI Engineering:	LLMs, Transformers: Decoders, Encoders, Embeddings, Sentence Transformers Retrieval Augmented Generation, Semantic Search, LangChain, HuggingFace
ML Engineering:	PyTorch, TensorFlow, Microsoft Azure, Databases, Model Deployment Evaluation, Monitoring
Programming Languages:	Python, SQL, JavaScript, HTML, CSS
Languages:	Spanish (Native), English (Proficient), German (Beginner)

## PROJECT PORTFOLIO [AT MVAZQUEZ.AI]

<b>LLM Agents</b>	Improved ReAct Agents from pure python adapted to open and proprietary models.
<b>Torch Tracer</b>	Hardware optimized Ray tracing parallel implementation in pyTorch.
<b>Hero Embeddings</b>	3D visualization of sentence transformer embedding of fictional heroes wiki pages.

## CERTIFICATES

<b>Business Fundamentals</b> Business for All 2024	Harvard Business Publishing September 2024
<b>Azure Data Scientist Associate</b>	Microsoft June 2024
<b>Azure AI Engineer Associate</b>	Microsoft February 2024
<b>IBM Data Science Professional Certificate</b>	IBM July 2022
<b>Complete Machine Learning and Data Science: Zero to Mastery</b>	Udemy September 2021