

Ramírez López, Almudena Zhou

E: almudena.zhou.rl@gmail.com

M: +34 664661075

A: Madrid, Spain

L: www.linkedin.com/in/almudena-zhou-ramirez-lopez

GH: <https://almudenazhou.github.io/>

I am an experienced **Data Scientist** and **AI Engineer** with a strong background in **developing and deploying machine learning models**. With additional experience in **LLMs, RAGs, and prompting engineering**. Proven track record of collaborating with **cross-functional teams**, managing **code quality**, and ensuring compliance with industry standards. My journey is fueled by a genuine curiosity and a **passion for learning**, driving me to create more productive and optimal systems for machine learning models.

| PROFESSIONAL EXPERIENCE

AI Engineer at Avanade. 02/2024 – Present

Tools: Python, LangChain, OpenAI, Azure, Databricks, PySpark, MLFlow, Git

- Develop the conceptualization and execution of advanced **RAGs applications**, employing **Azure Cognitive Systems** to enhance **scalability and robustness**. Utilized state-of-the-art methodologies to design and develop solutions that meet evolving business needs while maintaining high performance standards.

Data Scientist/AI Developer at New Horizon Technologies. 07/2021 – 01/2024

Tools: Python, Docker, SQL, Keras, TensorFlow, Jenkins, AWS

Career Evolution:

Transitioning from **Data Scientist**, to **Code Repository Manager** for the Quantitative Team, to **also connect the quantitative and DevOps teams**, and ultimately assuming the role of **coordinator for the development division** within the DevOps team.

- Developed **proprietary machine learning models** for portfolio optimization and trading strategies, utilizing random forest, xgboost, reinforcement learning, and ensemble models.
- Implemented **data cleaning techniques** and validation methods for **financial time series data**.
- Collaborated with team leads on **decision-making** regarding portfolio priorities, strategy acceptance, and leverage.
- Responsible for **integrating and maintaining team models in production**, monitoring for overfitting and drift.
- Managed **code quality and project workflow**, overseeing deployments and code approval.
- Ensure the **accurate application of business logic** within the production system.

| EDUCATION

Data Glacier Data Science Virtual internship. 05/2021 – 09/2021.

Tools: Python, Git, Docker, Flask, Pandas, numpy, matplotlib, keras, sklearn

International collaborative project involving business data processing and analysis, model development and deployment on Heroku, and presenting data to non-technical audiences.

UNED- Post Graduate Master in Big Data and Data Science applied to Business and Economics. 60 credits. 01/2021 – 12/2021

BME Institute- MSc in Artificial Intelligence applied to Financial Markets

10/2019 – 04/2021

UNIVERSIDAD COMPLUTENSE MADRID - Graduated in Physics. 09/2015-07/2019

| SKILLS

- Python. Daily used
- Azure. Daily used
- Databricks. Daily used
- SQL. Daily used
- Jenkins. Daily used as user
- Docker. Daily used as user
- AWS. Sporadically used
- Linux. Sporadically used

| CERTIFICATION

- AI-102 Engineer, Azure
- Security Certificate in ECDL, MTA
- Microinformatic Systems and Networks Course

| LANGUAGES

- Spanish. Native.
- English C1 Certified
- Japanese, Beginner.
- Chinese. Beginner.

| HOBBIES

- Music. Professional 5th grade
- Videogames developer
- Web competitions: Google Hash Code, Codechef