

# CERTIFICATE OF COMPLETION

**Hakim Sidahmed,**  
representing CLA CodeLabs GmbH,  
with domicile in Stresemannstraße 23, 10963 Berlin.

Certifies that

**Daniel Rodriguez**

Date of Birth: **05.10.1992**

has successfully completed the

**12- Week Data Science & AI Bootcamp (September 22, 2025 - December 15, 2025)**

## Acquired Skills:

**Preparatory phase:** SQL, Python, Jupyter Notebook, Git and GitHub, Linear Algebra, Probabilities and Statistics.

**Data Analytics:** Data Analysis, Data Preparation, Data Visualisation, Data Exploration.

**Classic Machine Learning:** Machine Learning, Supervised and Unsupervised Learning, ML Model Enhancement, Naive Bayes, SVM, Random Forests, ML Pipelines, Classification.

**Deep Learning:** Neural Networks (Implementation, Troubleshooting & Optimisation), CNN Architectures, Autoencoder Architecture, Data Augmentation, Tensorflow, PyTorch, Keras, Scikit-Learn.

**Natural Language Processing:** Text Coding for NLP, Recurrent Neural Networks RNN, LSTM, Attention Mechanisms, Transformer Model, Chatbot Building.



Course Leader



CLA General Manager