

DIEGO ORTEGA CASTELLANOS

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EDUCATION

Tecnológico de Monterrey (ITESM)

B.S. in Data Science and Mathematics, GPA: 91.2/100

Monterrey, N.L.

Jul 2021 – Jul 2025

ESEI International Business School Barcelona

Diploma in Digital Transformation, Business Management, Cybersecurity & AI

Barcelona, ESP

Sept 2024 – Dec 2024

EXPERIENCE

IT Manager Intern

8alpha.ai

May 2025 – Nov 2025

Remote

- Automated processes with n8n and Coda, reducing manual tasks by 100% and improving operational efficiency.
- Managed complete IT infrastructure: MDM, ABM, networks, and 10+ corporate devices.
- Participated in the development of a CRM app with Django and Next.js that centralized data management.

Technologies: Django, Next.js, n8n, Coda, MDM, Azure.

Software Engineering Intern

Iberia Group Engineering & Consulting Mexico

Jun 2023 – Jan 2024

CDMX, MX

- Created interactive visualizations using PowerBI to analyze company sales data.
- Provided ideas and support in the development of a mobile application with ReactNative for iOS and Android.
- Developed a complementary HTML website for the agricultural sector mobile application.

Technologies: PowerBI, Excel, HTML, CSS, ReactNative.

PROJECTS

iOS App Development for Calorie Tracking - Kalo (Personal Project)

Jan 2025 - May 2025

- Developed a nutrition tracking app with SwiftUI and Firebase for cross-platform synchronization.
- Implemented caloric goal calculation and food search with Edamam API.
- Reduced registration time by 40% through automated nutritional goal configuration.
- Integrated NutriAI assistant with Gemini API for personalized dietary recommendations.

Stock Market Prediction - Research Project (ITESM)

Jan 2024 - Mar 2024

- Created an LSTM model to predict stock prices with 10% higher accuracy than traditional models.
- Reduced training time by 20% through hyperparameter optimization.
- Decreased overfitting by 15% using dropout layers, improving model reliability.

Image Classification with CNN – Fashion-MNIST (ITESM)

Aug 2023 - Oct 2023

- Trained a CNN in TensorFlow/Keras to classify 70,000 images from the Fashion-MNIST dataset.
- Applied normalization, batch normalization, and dropout to improve model generalization.
- Achieved 91% accuracy in testing, evaluating with confusion matrix and key metrics.

SKILLS

Technical: Machine Learning, Deep Learning, Time Series Forecasting, Big Data, Data Analysis, APIs.

Programming Languages: Python (Scikit-learn, Pandas, Tensorflow), Swift, JavaScript, SQL.

Frameworks: Next.js, ReactNative, Django.

Software & Tools: Git, Docker, PowerBI, n8n, Excel, Coda, HTML, CSS.

Soft Skills: Teamwork, Adaptability, Problem-solving, Entrepreneurial Initiative.

Languages: Spanish (Native), English (B2+ DET 115/160).

AWARDS & RECOGNITION

400 hrs of Entrepreneurial Experience (ITESM) | [View](#)

Jul 2025

- Distinction awarded for over 400 hours in innovation projects and entrepreneurial leadership.

Mobile App Concept for Real Madrid Official Store (LKE&JLK Barcelona S.L.) | [View](#)

Dec 2024

- Recognition for the design and development of a mobile app in Swift to improve customer experience.