

# JUAN COBO CELDRÁN

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## EXPERIENCE

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### **Data Scientist**, Baobab Soluciones, 2024 – Present

- Developed and deployed data-driven solutions to optimize client business processes and improve decision-making by analyzing large datasets and identifying key insights.
- Collaborated with cross-functional teams to define project goals, gather requirements, and translate business problems into analytical tasks.
- Designed and implemented predictive models using machine learning algorithms to forecast outcomes and drive strategic recommendations for clients.
- Extracted, transformed, and loaded large datasets from diverse data sources to ensure clean and well-structured data for analysis.

### **Research Assistant**, Universidad Carlos III de Madrid, 2023 – 2024

- Collaborated with medical professionals and researchers to analyze actigraphy data from patients with head injuries, supporting clinical insights and research findings.
- Processed and analyzed time-series data from wearable devices to assess patients' sleep patterns, physical activity, and recovery progress post-head injury.
- Developed data preprocessing pipelines to clean, normalize, and extract relevant features from raw actigraphy data, ensuring high data quality for analysis.
- Applied statistical and machine learning methods to identify patterns in patient activity levels and predict recovery outcomes, contributing to improved patient care strategies.

## EDUCATION

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### **Bachelor of Computer Science and Engineering**, Universidad Carlos III de Madrid, 2020 – 2024

- Relevant coursework: Statistics, Machine learning, Artificial intelligence in business, Data architecture, Files and databases, Genetic algorithms.

## PROJECTS

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**Foxnode:** A web-based application designed to transform user prompts into custom diagrams. It does so by leveraging the power of local Large Language Models (LLMs) through Ollama.

**Bond:** A simple wrapper around LangChain to obtain structured outputs from a locally run LLM. Bond allows users to extract structured information from textual input based on a provided format.

**Brain Notes:** A rapid note-taking tool powered by locally run LLMs. Brain Notes ensures correct grammar and coherence in notes, even if the user's input is incomplete, allowing for efficient and seamless note-taking experiences.

## SKILLS

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**Coding:** Python (Pandas, Polars, NumPy, Scikit-learn, Sktime, Keras, TensorFlow, Darts, LangChain, Ollama), JavaScript, R, MATLAB, C++.

**Data Science and Artificial Intelligence:** Data analysis and visualization, LLM, Agents, Prompt Engineering.

**Databases:** SQL, MongoDB, Cassandra, Neo4j.

**Languages:** Native Spanish, Advanced English.