COSMINA IOANA NICU

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Cosmina Nicu

EDUCATION

Artificial Intelligence Master

Universidad Internacional de Valencia

2021 – 2022 Valencia

Computer Engineering Degree

Universitat Autònoma de Barcelona

2016 – 2020 Barcelona

EXPERIENCE

Machine Learning Engineer

NDT Global

July, 2022 - November 2022 Barcelona

- Analyze the data to decide the best approach to find girth welds inside the pipes.
- Training and monitoring of Deep Learning models in AzureML.

Machine Learning Engineer

Datision

March, 2021 – July, 2022 Barcelona

- Build a custom database for storing the collected data used to train the Machine Learning models.
- Apply data analysis techniques to decide the best model architectures.
- Training of a failure prediction model for a cash-handler machine using AWS Sagemaker.
- Evaluation of the model and deployment in AWS Sagemaker.
- Creation of Docker images containing the inference API (Flask/Django used).
- Use of monitoring frameworks, specially Weights&Biases, and automation of model re-training.

Machine Learning Engineer

Wattwin

March, 2020 – November 2020 Barcelona

- Data collecting and analysis for implementing a recommendation system for power usage.
- Integration of the different Machine Learning models into the backend service.

Machine Learning Internship

Computer Vision Center

July, 2019 – October, 2019 Barcelona

- Applying NLP in historical articles with the aim of finding similarities between different articles.

LANGUAGES

Spanish
Native

Catalan
Native

Romanian
Native

English
Intermediate

SKILLSET

PyTorch | TensorFlow | LLM | Transformers | FastAPI | Docker | AWS - SageMaker | AWS - S3 | MySQL | MongoDB | Pandas | ElasticSearch | Scikit-Learn | Django | Git | Weights&Biases | PostgreSQL | Postman | Matplotlib

PROJECTS

Book Summarization

Usage of ChatGPT and several models based on Transformers, which allow the generation of summaries of books of different genres and of different lengths.

Tweet Emotion Classifier

Implementation of a model based on Transformers, which allows to classify text, according to the emotion it conveys.

Book Recommender system

Implementation of two of the most used recommended systems, capable of recommending the next book to read based on one you liked.

Sentiment analysis

Detection of the sentiment transmitted by product reviews on an e-commerce website.