






# Baptiste Urgell 23 years

Junior Machine/Deep learning Engineer

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With a wealth of experience in data-driven projects thanks to my education, internships and personal activities, I would like to bring my technical and relational skills to your company. The new challenges in the field of data, as well as the technical and technological advances are a source of motivation to me. I am looking for a full time job as a **Machine Learning, Computer Vision, NLP Engineer** or **Data Scientist**.

## SKILLS

- **Machine/Deep Learning**
  - Clustering
  - Tabular data
  - Computer Vision
  - Natural Language Processing
  - Time Series
- **Database**
  - SQL (SQLite, Server MySQL)
  - NoSQL (MongoDB)
- **Programming language**
  - Python (TensorFlow, PyTorch, Scikit-Learn, SciPy)
  - C/C++

## LANGUAGES

- French : Native (French citizenship)
- English : Fluent (Semester in Ireland)

## TRAVELS

- China (Beijing, North of China)
- Ireland (Dublin, Belfast, Galway, ...)
- Hungary (Budapest)

## ASSOCIATIONS

- Vice-president BDS 2020
  - Vice-treasurer Voil'EISTI 2021
- Student associations managing respectively sports and water sports offered by the school*

## SPORTS

- Team sports:
  - Basket (6 years)
- Individual sports:
  - Golf, Sailing, Skiing

## WORKS

-  <http://urgell.freeboxos.fr:32769/>
-  <https://www.linkedin.com/in/baptiste-urgell-53419217b/>
-  <https://github.com/BaptisteUrgell>

## EXPERIENCE

### Machine Learning Engineer

Pau, France

*A.P.I Conseil*

*June 2022 - October 2022*

Creation of a reference detection tool in patents to facilitate their validation.

- **References detection:** Development of a training and testing computer vision pipes using YOLOv5 model to achieve reference detection in patent images and documents.
- **References extraction:** Text extraction thanks to PaddleOCR model.

### Data Scientist

Bordes, France

*Safran Helicopter Engines*

*April 2022 - October 2022*

Creation of monitoring dashboards and daily equipment condition reports for helicopter engine test benches.

- **Predictive maintenance:** Statistical and Deep Learning approach for anomaly detection on signal produced by measuring instruments. Implementation of wear and tear indicators for measuring instruments.
- **Test bench hypervision:** Implementation of daily reports using Zeppelin and monitoring dashboards using Grafana.

## EDUCATION

### CY-Tech (ex EISTI)

Pau, France

*Master in Computer Science, Artificial Intelligence speciality*

*2017 - 2022*

- **Courses:** Machine Learning, Deep Learning, Quantique, (Meta)heuristic optimization, Parallel Computing.

### Griffith College

Dublin, Ireland

*Master in Big Data Management and Analysis*

*February 2021 - June 2021*

- **Courses:** Big Data analytics, Parallel and distributed programming, Information retrieval and web search, cloud platforms and applications.

## PROJECTS

### Personality Chatbot (Natural Language Processing)

February 2022

- Developed a conversational Chatbot with Homer Simpson personality. Research on the best preprocessing strategy applies to fine-tune GPT-2 model.

### Competition IA PAU 1ST Place

February 2022

- Training YOLOv5 model to achieve trashes detection on rivers video.
- Developed a python application using Streamlit to integrate the model.

### Cryptocurrency course (Time Series Forecasting)

In progress

- Research on best labelisation strategy for cryptocurrency course. Using an image transformation on time series and training a Transformer model for classification tasks.