Lenouvel Louis

As a work-study engineering student at ISEP, specialising in AI and Data Science, I design and deploy machine learning models applied to data. After graduating in September 2026, I would like to pursue a first position in AI/Data Engineering in order to provide reliable, industrialised and performance-oriented solutions.

Contact

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in/louis-lenouvel/

Eportfolio

LenouvelLouisDev

Formation

Computer Engineering Degree (apprenticeship)
ISEP, Paris
Specialisation: Data Intelligence (AI/Data Science)
2023–2026

Academic semester abroad (planned) Hanze University, Groningen (Netherlands)
Course: System Modelling, Leadership & Intercultural Teamwork   February–April 2026

B.U.T. Computer Science Paris Cité University (Descartes)
 Development & Data Course 2021–2023

General Baccalaureate (Maths & NSI) Honours
 Advanced Maths Option 2021

Skills

IT:

AI & Data Science :
- Python (Pandas, NumPy, Scikit-Learn, TensorFlow/PyTorch)
- Machine Learning: supervised/unsupervised models, evaluation & metrics
- Data Mining, Feature Engineering, Data Preparation & Cleaning
- Statistical Modelling, Regression, Classification, Clustering

Development & Tools :
- Python, SQL, JavaScript
- APIs & Backend: FastAPI, Node.js
- Docker, Git, CI/CD

Databases :
- PostgreSQL, MySQL, SQLite
- Modelling: MCD, UML, MERISE (basic)

Web :
- HTML5, CSS3, JavaScript, TypeScript
- Frameworks: Angular / Bootstrap

Languages:

- French: fluent
- English: B2 (885 TOEIC score)
- German: basic knowledge

Driving licence B and A2

Projects

- **TO BEE OR NOT TO BEE**
  - Classification and segmentation of 347 images of pollinating insects (bees vs. bumblebees)
  - Extraction of visual features and ML modelling to differentiate species
  - Languages & tools: Python, scikit-learn, TensorFlow, OpenCV

- **AUTOMATED DETECTION OF DEEPFAKES**
  - Development of a DL solution to identify deepfakes in a dataset of 16,000 diverse images.
  - EfficientNet-B0 frozen architecture + trained lightweight head.
  - Languages & tools: Python, PyTorch, TensorFlow, Streamlit.

- **METRO VISION**
  - Detection and classification of line pictograms from real images (station photographs)
  - Extraction of visual features + supervised ML model (multi-class classification)
  - Languages & tools: Python, scikit-learn, OpenCV

- **CALIFORNIA HOUSING API**
  - Modelling median house values (California Housing)
  - Comparing regression models (RF, Gradient Boosting, g.)
  - Deploying a prediction API via Gradio/HuggingFace
  - Languages & tools: Python, scikit-learn, pandas, Gradio

Professional Experience

- **SEPTEMBER 2023 - SEPTEMBER 2026**
  IKIGAI Games for citizens

  ### Fullstack Developer Internship - Data
  - Development of Python APIs (FastAPI) for collecting and using educational events in xAPI format (EdTech standard).
  - Extraction, transformation and validation of usage data from educational games.
  - Contribution to data quality and consistency: automatic checks, standardisation, monitoring.
  - Implementation of automation scripts (Docker) and technical documentation.
  - Tools: Python, FastAPI, Docker, xAPI, Git.

- **APRIL–MAY 2023**
  IKIGAI Games for citizens

  ### Full-stack developer intern
  - Analysis of anomalies and improvement of the reliability of existing data and features.
  - Integration of new front-end and back-end features.
  - Support for the evolution of the platform's educational ecosystem.
  - Tools: Angular, JavaScript

Qualities and interests

- Serious, hard-working, thorough, team player, committed.
- Practising judo for 6 years: discipline, endurance & preparing for black belt.
- Language trips (Germany, England) and interest in working abroad.
- Creating applications and exploring AI projects (vision, deep learning, Python APIs).