

# PRUDHOMME Pierre

Looking for a permanent contract in Data Science.

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## Education

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- ENSIIE, École Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise Sept 2021 – Sept 2025
- **Coursework:** Machine Learning, Deep Learning, Big Data Platform Engineering, Regularized Regression Methods, Stochastic Process Study, Mobile Application Development.
- Lycée de Cachan, CPGE TSI Sept 2019 – Sept 2021
- Preparatory class for highly competitive national exams specializing in engineering sciences. Ranked **121/1200**.

## Experience

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- Data Scientist Intern**, Limpide – Prague, Czech Republic. May 2025 – Nov 2025
- Design of a computer vision automated document information extraction tool in the energy market, using fine-tuned AI models and self-improving agents, enabling continuous prompt optimization (n8n, AutoGen, Langchain, LLMops, MCP, OCR, Azure).
  - Development of collaborative agents and deployment of a multi-agent architecture integrating MCP and RAG.
- Data Scientist Intern**, Ministère de l'Éducation Nationale – Paris, France. May 2023 – Aug 2023
- Implemented a predictive model for staff management based on student grades and academic trajectories.
  - Built a self-assessment tool for dataset analysis.
  - Processed and visualized data from relational databases.
- Data Protection Officer Intern**, Confiance Digitale – Massy, France. May 2022 – Aug 2022
- Set up virtual machines and administered them via Active Directory.
  - Implemented patch management software for virtual machines.
  - Managed Microsoft domains and deployed anti-spam solutions.

## Projects

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- Self File Analysis** pierreprudh/File-Analysis
- Developed a self-analysis tool to extract information from .csv/.xlsx files, generate a JSON dictionary, and create a PDF report with a dashboard-style visualization.
  - **Tools:** Python, HTML.
- Face Mask Detection** pierreprudh/SF-Mask
- Real-time deep learning algorithm detecting faces and classifying mask usage on images and videos.
  - **Tools:** Python (TensorFlow, PyTorch, pandas, ...).
- French Mobile Network Data Analysis**
- Analyzed ANFR databases to identify areas with the weakest network coverage.
  - **Tools:** Python, Hadoop, Kafka, Spark, OpenSearch, Dataiku.

## Technologies and Languages

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**Programming:** Python (data-science packages, agentic libraries, etc.), R, SQL, React.

**Tools:** Git, Microsoft Office, Latex, Docker.

**Languages:** French (mother tongue), English C1 - (TOEIC 975), German.

## Interests

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- DSI volunteer for the FC Bourg-la-Reine football club.
- Sports : Running, football, gym.