Ly An **CHHAY**

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EXPERIENCE

PRESENT – JAN 2025 — **Data Scientist & Senior Technical Advisor, National Social Security Fund, Cambodia**

- Engineered interactive dashboards that translated complex datasets into actionable insights, directly influencing strategic business decisions
- Collaborated with cross-functional teams to implement data-driven solutions
- Work closely with Actuaries to ensure data quality and accuracy, Modeling and coding support for actuary valuation

OCTOBER 2024 – APRIL 2024 — **R&D AI Engineer, Audensiel Healthcare, France**
AIDRUG : Optimizing Biomedicine Manufacturing (Monoclonal Antibodies) Through Protein Aggregation Analysis

- Developed a series of AI-based models (Att-BiLSTM, Graph Neural Networks, Protein Language Models) to predict protein aggregation propensity from 2D sequences
- Achieved 100x faster predictions compared to traditional computational methods while maintaining high accuracy
- Built Streamlit web application enabling non-technical users to interact with models and get mutation suggestions for optimal antibody candidates

MARCH 2024 – JAN 2024 — **AI Engineer, VINCI Construction, France**
Development of an AI Tool for Efficient Retrieval and Generation of Internal Technical Information

- Built RAG-based QA system to streamline access to construction documentation and technical knowledge
- Architected hybrid search system combining traditional keyword matching (BM25) and semantic search, with GPT model to provide answers to complex construction-related queries

EDUCATION

2023-2024 **Master's Degree in Data Science**, Institut Polytechnique de Paris (IP-Paris)

2021-2024 **Engineering Degree in Modélisation Statistique et Applications (MSA)**, Télécom SudParis

2018-2021 **Bachelor's Degree in Computer Science (3 Years Completed)**, Institute of Technology of Cambodia (ITC)

SKILLS

programming languages	python, R, Matlab, Java, C/C++
libraries	Scikit-Learn, PyTorch, TensorFlow, Pandas, Numpy, Matplotlib, NLTK, Huggingface, Spark, River, Kafka, OpenCV
Database	MySQL server, cypher Neo4j, MongoDB
Others	Git, Docker

LANGUAGES

- English : C1 (TOEIC 970/990)
- French : B2
- Khmer : mother-tongue

QUALITIES

- Collaborative
- Adaptive and Flexible
- Problem-solving
- Autonomous and Self-motivated