

Chandeth SOK

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in chandethsok

🌐 <http://chandethsok.github.io>

Education

- 2024 – 2025  **M.Sc. Data Science, Institut Polytechnique de Paris.**
- 2022 – 2025  **Diplôme d'Ingénieur (Master's level), ENSAE Paris.**
- 2019 – 2022  **Engineering program, Institute of Technology of Cambodia.**

Professional Experience

- May 2025 – Nov 2025  **Data Science Intern, Forvia (Paris Tech Center)**
Conducting research on detecting hallucinations in Retrieval-Augmented Generation (RAG) systems and agentic AI.
- Mar 2024 – Aug 2024  **AI Engineer Intern, AI-VIDENCE**
Built a trustworthy conversational agent (chatbot) capable of accurately answering questions based on documents.
- Jun 2023 – Sep 2023  **Data Science & AI Intern, Paris Partners Softwares**
Developed a tool to assess job applicants and explain decisions based on job descriptions using LLM

Research Publications

- 1  C. Sok, D. Luz, and Y. Haddam, *Metarag: Metamorphic testing for hallucination detection in rag systems*, 2025. arXiv: 2509.09360 [cs.CL].  URL: <https://arxiv.org/abs/2509.09360>.

Skills

- Languages  English (C1), French (B2), Khmer (Native)
- Programming  Python, R, Java, SQL, \LaTeX

Miscellaneous Experience

Awards and Achievements

- 2022  **Eiffel scholarship** — French government scholarship for graduate studies at ENSAE Paris.
- 2019  **Grade A** — Top 20 of 100,000 candidates in the national baccalaureate exam.

Projects

- March 2025 – Apr 2025 **Annealed Sinkhorn for Optimal Transport, [Optimal Transport course](#)**
Implemented in OTT-JAX the algorithm from L. Chizat (2024), *Annealed Sinkhorn for Optimal Transport: convergence, regularization path and debiasing*
[Colab notebook](#) available. Tech: Python, JAX, OTT-JAX, Optimal Transport
- Legal Document Classification with EuroBERT, [ML for NLP course](#)**
Implemented multilingual legal document classification on the MultiEURLEX dataset (English, French, Spanish). Compared full fine-tuning with PEFT methods (LoRA, BitFit) applied to EuroBERT. Tech: LLMs, EuroBERT, HuggingFace, PEFT

Projects (continued)

Jan 2025 – Apr 2025

Agnostic LLM Information Retriever, VINCI

Developed a generic information retriever for LLMs, robust for general use cases and customizable for domain-specific tasks. *Tech: LLMs, LangChain, RAG, HuggingFace, RAGAS*

Nov 2022 – May 2023

Explaining Performance Gaps in Mathematics, Collège de France

Analyzed DEPP panel data to investigate determinants of mathematics performance gaps among French students. *Tech: Visualization, EDA, Regression*

Sep 2022 – Dec 2022

Research of Potential Countries for Education Investment, Python for Data Science course

Built composite indicators to rank countries based on education investment opportunities. *Tech: Visualization, EDA, PCA, Scoring*