Hritika Kathuria

hritika.kathuria@polytechnique.edu
linkedin.com/in/hritika-kathuria

About me

I'm a PhD student at Ecole Polytechnique and INRIA with Ioana Manolescu and Maxime Buron in the CEDAR team at LiX.

Work Experience

PhD in Computer Science

From October 2024

- Topic: Decentralized semantic data sharing with access control Main areas: secure data sharing in a decentralized, OBDA (ontology based data access)-style setting; RDF Integration systems; Semantic Web; data integration in heterogenous sources. Open source code in Java.

Machine Learning Researcher

From March 2024 to September 2024, Nokia Bell Labs Paris

- Enhanced an established methodology in Topological Data Analysis (TDA) for analyzing scientific field evolution on a dataset of patents, improving its ability to capture nuanced trends.
- Developed advanced NLP-driven algorithms with dimensionality reduction for efficient innovation landscape analysis.

Artificial Intelligence Researcher

From February 2023 to August 2023, École Normale Supérieure

- Developed a computer vision pipeline that fine-tuned classification models to detect facial landmarks with 87% accuracy, providing statistical tests and presented the work at the EHBIA in London.

Education

PhD in Computer Science

2024, École polytechnique - Attended ISWS 2025 and VLDB Summer Schools

Master of Science

2022 - 2024, Learning Planet Institute

- Exchange at ENS Paris and ESME Paris

Bachelor of Science

2019 - 2022, University of Delhi

- Exchange at University College London and University of Oslo

Skills

- Programming Languages: Java, Python, SQL, C++
- Visualization Tools: Tableau, PowerBI
- Machine Learning: Scikit-learn, PyTorch

Languages

- English: Fluent
- French: Intermediate