Amir Dib

Research Scientist

CONTACT

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- Publications & Research

EDUCATION

Ph.D. Machine Learning
Ecole Normale Paris-Saclay, SNCF
2017-2021

M.Sc. Probability (DEA El Karoui)
École Polytechnique, Sorbonne University
2014-2015

Mc.S. Fundamental Physics
Paris-Saclay University
2012-2015

SKILLS

Dev
*Python (TensorFlow, pytorch,etc), R, C++, javascript, Web.
CI/CD, Gcloud, AWS*

Statistics
*Deep learning (GNN, CNN, RNN, etc),
Bayesian modeling,
temporal series analysis.*

PROFESSIONAL EXPERIENCE

Research Scientist Freelance
CITIO, NOV 2022 - PRESENT.

Driving end-to-end AI solutions from research to production, developing algorithmic libraries for high-impact industries. Led projects including a Market Mix Model managing **$1B+ in ad spend**, a global FMCG image recognition system, and industry-grade tech stacks in collaboration with Telecom ParisTech and Institut Polytechnique.

Lead Research Data Scientist
CITIO, JAN 2021 - NOV 2022.

Leading a four-person team to design and implement new algorithms for large-scale transportation network management. Responsible for conceiving and delivering the R&D roadmap, developing production-ready, metric-driven algorithms, and communicating key results to investors.

PhD Candidate
ENS PARIS-SACLAY / SNCF, 2017 - 2021.

Preparation of my Ph.D. thesis titled High dimensional pattern learning for symbolic time-series. My research focused on ML models for symbolic time series classification (DNA patterns, temporal graphs, text, pictures, etc).

Research Data Scientist
FRENCH NATIONAL RAILWAY COMPANY (SNCF), 2015-2017.

Algorithm design for large-scale application on industrial systems. Include project supply chain optimization, predictive maintenance on the train fleet and infrastructure, transportation network optimisation, designing NLP solution for automatic report classification,

NOTABLE PERSONAL PROJECTS

ONADAP (2020-2021)

Designed a tool to model and visualize epidemic dynamics in a hospital environment. Developed at HIA Percy, one of France's largest military hospitals, it received a **€1M grant from the French Defense Agency (DGA) for operational deployment.**

Aave (2017)

Aave is a fully decentralized lending financial marketplace built on top of the Ethereum Network. As of 2021, Aave is in the top 10 cryptocurrency market capitalization.