Ali Asfahani

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EDUCATION

MS in Artificial Intelligence
2027
Université Saint Joseph (USJ)
ESIB
Relevant coursework (taken so far): AI in Fintech, Math for AI, Programming for AI, Statistics, NLP, Graph theory, AI basics, AI Optimization, Computer Vision, Machine Learning.

BS Computer Science
2023
Le Cnam
Computer engineering department
Relevant coursework: Data Structures and Algorithms, Object-Oriented Programming, 4 JAVA courses from basics to advanced, Software Engineering, Databases and SQL, Operating Systems, Computer Networks.

RELEVANT PROJECTS

Credit Risk and Loan Portfolio Optimization

MATLAB — Statistical and Financial Modeling

- Built ML-based credit scoring models (logistic regression, decision trees, random forests) to estimate probability of default.
- Engineered scorecards using WOE and binning, validated models with ROC/AUC, and selected optimal cut-off scores.
- Optimized a loan portfolio and interest-rate pricing using expected loss, recovery rates, and risk-adjusted returns.

Evaluation-as-a-Service (EaaS) Platform for LLM Systems

Next.js, Python, Supabase, SQL

- Designed and implemented a platform for batch evaluation of LLM outputs using configurable rubrics and automated metrics
- Built a Python scoring worker supporting both algorithmic evaluation and LLM-based rubric scoring
- Implemented versioned experiment tracking to compare model performance across runs and detect quality regressions
- Integrated evaluation results with CI/CD workflows, enabling deploy blocking when quality thresholds are not met
- Developed dashboards to analyze evaluation results, trends, and non-regression over time

Statistical Stock Analysis and Forecasting System

Python

- Built a stock analysis and forecasting system using statistical time-series models
- Performed historical back-testing to evaluate forecast robustness across different market conditions
- Analyzed model assumptions and limitations, prioritizing interpretability and reliability over black-box approaches

Reliability Analysis of Probabilistic Event Forecasts

Statistics — Python

- Built a probabilistic forecasting model to estimate outcome likelihoods of events, focusing on confidence calibration
- Performed historical back testing to analyze prediction reliability and failure modes under changing conditions

Facial Recognition using Eigenfaces (PCA-based Pipeline)

Python

- Implemented a facial recognition smart door lock pipeline using Principal Component Analysis
- Studied dimensionality reduction trade offs, numerical stability, and classification accuracy

Educational Full-Stack Java Desktop Application

Java

- Built a desktop application in Java applying object-oriented design patterns to enforce clean architecture and scalable software design.

EXPERIENCE

Online Computer Store – Founder / Operator

Jan 2020 – Present

- Managed an end-to-end online computer retail operation, combining technical troubleshooting, customer requirement analysis, and solution design
- Diagnosed hardware and software issues and advised on optimized PC configurations, strengthening analytical and problem-solving skills
- Coordinated with suppliers and optimized pricing under real-world constraints

Web Development Intern

Nov 2022 – Jan 2023

- Developed a dynamic web platform for an education center using HTML, CSS, JavaScript, PHP, and asynchronous communication
- Designed system architecture including actors, workflows, and database models
- Implemented role based access control and contributed within an agile development process

Freelance Software Developer

2022 – 2023

- Delivered custom software and web solutions for individual clients, translating requirements into maintainable and functional systems
- Built and modified applications using Java and web technologies, focusing on reliability and practicality
- Worked directly with clients to diagnose issues, propose solutions, and iterate based on feedback

SKILLS

Programming Languages:

Python · Java · SQL

Programming Languages:

Object Oriented Design · Design Patterns · REST APIs · Agile Development

AI and Data:

Probabilistic Modeling · Model Evaluation and Calibration · Retrieval-Augmented Generation (RAG)

Web:

HTML · CSS · JavaScript · PHP

Linguistic:

Arabic(native) · English(Fluent) · French(B1)

EXTRA CURRICULAR ACTIVITIES

Organized and coordinated community sports tournaments and online gaming events involving 16+ teams and up to 80 participants, demonstrating initiative and organizational skills.