MONCEF BOUSSELAT

DATA & AI ENGINEER

Graduate in Cloud Computing and holding a Master's in Data and AI, seeking a Data & AI role to apply my technical expertise and interdisciplinary skills developed through my academic and professional journey.

Nancy, France | +33753542166 | a.m.bousselat@gmail.com | linkedin.com/in/moncefbousselat
github.com/Somnef | somnef.com

EDUCATION

Master in Networking and Cloud Computing
Sep. 2023 – Jul. 2025

University of Lorraine | Leeds Beckett University | Lulea Technical University — *Nancy, FR | Leeds, UK | Skelleftea, SE*
- Selected among 2000+ applicants for the Erasmus Mundus scholarship in "Green Networking and Cloud Computing"
- Relevant coursework: Cloud Services, Intelligent Systems and Robotics, Internet of Things, Advanced Wireless Networks, System Engineering, QoS and QoE, Data Analysis

Master in Data Science and AI
Sep. 2018 – Jul. 2023

National Polytechnic School — *Algiers, Algeria*
- Ranked in the top 10% of prepatory school students nationwide, selected through a national competitive exam
- Relevant coursework: Advanced Databases, Probability and Statistics, Multivariate Data Analysis, Machine & Deep Learning, NLP, Blockchain, Cloud Computing

EXPERIENCE

Data and AI Engineer - Intern
Oct. 2022 – Jan. 2023

Ericsson — *Algiers, Algeria*
- Trained a YOLO model to help field workers identify devices, with 85%+ accuracy
- Built a PyTorch autoencoder for image denoising; 99% accuracy on MNIST

Data Analyst - Intern
May 2022 – Jul. 2022

BH Advisory — *Algiers, Algeria*
- Monitored the construction materials market to spot price and stock trends
- Built web scrapers and displayed data on a VueJS dashboard

PROJECTS

Machine Learning for Drinking Water Quality Evaluation
May 2024

View on GitHub
- Used chemical features to classify water as drinkable or not through ML and DL models, reaching 90% accuracy

NEAT Algorithm Applied to Video Games
Oct. 2022

View on GitHub
- Rebuilt Flappy Bird and Snake in Pygame with matching gameplay
- Used NEAT to evolve agents without supervised training and outperformed all tested human players

Wildfire 3D Simulator
Dec. 2021

View on GitHub | Read on ResearchGate
- Segmented Google satellite images with k-means for terrain mapping
- Rebuilt the 3D landscape for a 100km² forest area and simulated wildfire spread using a semi-empirical cellular automata

Focus AI
Nov. 2021

View on GitHub
- Optimized a deep learning face tracker to detect loss of focus in real time
- User tests showed up to 50% boost in focus and productivity

AWARDS & CERTIFICATIONS

Certifications: AWS Certified Solutions Architect Associate
Awards: 1st Place - Arctic Challenge (Sweden, 2024), 2nd Place - Google DevFest Hackathon 21 (Algeria, 2021)

SKILLS

Programming Languages: Python, C/C++, Java, PHP/SQL, JavaScript/TypeScript, BASH
Tools and Technologies: NumPy, Pandas, Matplotlib, Seaborn, PyTorch, Scikit-learn, Tensorflow, Anaconda, AWS (certified), Terraform, Docker, Kubernetes, Git, CI/CD, Monitoring (Prometheus, Grafana)
Languages: English (C2), French (C2), Arabic (Native), Swedish (Basic)