ALEXANDRE SEPÚLVEDA DE DIETRICH

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EDUCATION

Columbia University   New York, NY
MS in Business Analytics, GPA: 3.93/4.00   Expected Dec 2026
Coursework: AI Engineering, Marketing Analytics, Business Analytics, Data Analytics, Probability Statistics & Simulation

Universite Paris-Saclay: CentraleSupélec   Gif-sur-Yvette, FR
Diplôme d'Ingenieur - MEng in Statistics and Applied Mathematics, GPA: 3.93/4.00   Sep 2022 - Apr 2026
Top French Engineering School (Grande école): Ranked #2 in France, #12 globally (Shanghai Ranking)
Coursework: Algorithms and Networks, Machine Learning, HPC & Cloud computing, Signal Processing, Game Theory

Lycee Charlemagne & Lycee Saint-Louis   Paris, FR
Intensive preparatory course, Physics & Engineering (Equivalent to a BS),   Sep 2019 - Jul 2022
Ranked top 2% of national competitive entrance exams
2–3 year intensive physics, math, and engineering program preparing for France's top engineering school exams (CPGE)

WORK EXPERIENCE

SIGMA Group, Commercial Excellence Europe   Madrid, ES
Data Analyst Intern (Key Account Management)   May 2025 - Aug 2025
- Analyzed commercial performance across 6 countries (~60 resellers) to surface ROI levers and inform negotiation strategy for local Key Account Managerss. (Power Query, Power Pivot / Excel)
- Built 5 dynamic dashboards adopted by negotiation teams, standardizing KPIs (GP, NSV, volume) and providing visibility teams previously lacked for data-driven negotiations

CHANEL Europe, Advanced Analytics & Data Science   Paris, FR
Data Scientist Intern   Sep 2024 - May 2025
- Directed end-to-end development of CRAFT, an outlier detection system analyzing 30M+ accounting entries for corporate finance teams, from problem scoping to near-production deployment
- Built and deployed custom anomaly detection pipelines for mixed data, outperforming Isolation Forest and DBSCAN; tracked experiments in MLFlow and deployed via AzureML. (Python, Pandas, scikit-learn, categorical encoders)
- Developed clustering & multivariate techniques for 300+ monthly sales time series (KMeans / KMedoids, Euclidean & DTW), enabling cluster-level forecasting templates in small-data contexts. (sktime, tslearn, statsmodels)

PROJECT AND RESEARCH EXPERIENCE

CentraleSupélec L2S Lab & Forvia   Gif-sur-Yvette, FR
Camera-Radar Fusion Vehicle Tracking Project   Feb 2024 - Jun 2024
- Engineered a camera–sonar tracking pipeline by fusing data from 1 camera and 2 sonars using optimal transport to attain lidar-level sensing
- Achieved ~20 cm positional accuracy within a 3 m × 2 m test area (OpenCV, custom optim routines)
- Coordinated with a team of 3 and conveyed findings to stakeholders

CentraleSupélec L2S Lab & Paris Public Hospitals   Gif-sur-Yvette, FR
Respiratory Monitoring System Optimization   Oct 2023 - Jan 2024
- Processed and engineered features from airflow/volume signals for 100 ICU patients, creating a 2D feature space to characterize ventilator synchrony
- Employed Mazet (asymmetric linear) regression for anomaly-robust modeling and trained an SVM classifier reaching 95% recall, prioritizing sensitivity for clinical safety. (MATLAB, Python, scikit-learn)
- Orchestrated a team of 4 to produce functional code and comprehensive reports for near-clinical adoption

LEADERSHIP AND ACTIVITIES

Genius CentraleSupélec (Entrepreneurship Society)   Gif-sur-Yvette, FR
Vice-President   Oct 2022 - Feb 2024
- Led a 40-member team to drive 1,000+ student engagements and partner with 40+ companies (TEDx, Innovation Fair), increasing attendance and profitability by 25%

OSER le Supérieur initiative   Essonne, FR
Organizer & Physics instructor   Jul 2023
- Coached 15 underprivileged students in math and physics through a two-week academic and career-prep camp, preparing for France's elite CPGE programs

SKILLS

Technical Skills: Python (Pandas, Polars, Scikit-Learn, NumPy, sktime), MATLAB, SQL, LaTeX, Git, Azure ML, MLflow, mathematics, statistics; proficient in SharePoint, Power Automate, Power Apps, and Excel Dashboards (Power Query, Power Pivot); experienced in data analysis, machine learning, business intelligence and predictive modeling
Languages: French (Native), Spanish (Proficient)