Arnaud Duigou

Data Scientist, *Healthcare & Life Sciences*

Through my company DATA BOOST and as a freelancer,
I provide support to clients in the pharmaceutical & biotechnological sectors to:
- Analyze their data and extract Insights and Performance
- Deploy Troubleshooting and optimize processes using statistical tools
- Develop AI models (Machine Learning, Deep Learning, NLP), if relevant
- Create data visualization and dashboarding tools (Power Bi, Tableau Software, ...) related to operations (production, quality, supply chain, lean, ...)
- Automate and digitize tasks with no added value

{d-b}
DATA BOOST

Bio

Trained as a pharmacist and chemical engineer, I am passionate about process optimization and problem-solving through "Data" and statistics.
My 13 years of industrial experience in the pharmaceutical sector provide me with a clear and precise understanding of its environment and constraints.
My pragmatic and efficient approach allows me to bridge the gap between the intricate world of Data, project management, and on-the-ground applications.

Contact

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in in/arnaud-duigou-data/

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✉ Orléans, France

Hard skills

- Python, R, SQL, VBA
- Tensorflow, Keras
- NLP, Computer Vision
- Snowflake
- Dataiku
- PowerBi, Tableau
- Version Control (Github), CI/CD
- AWS (ECS, S3, Lambda)
- Web Scaping
- Agile certification (on-going)

Soft skills

- Collaboration
- Adaptability
- Precision and logic
- Critical Thinking
- Communication & Storytelling

Languages

- French
- Anglais C1 (TOEIC 915)
- German (basic)
- Japanese (basic)

Professional Experience

02-10/2023 Ipsen Innovation | Les Ulis (91)
Project Manager - *Clinical Data Manager*
- Deployment of a monitoring tool for clinical studies/data, developed using Agile methods.
- Definition of the release validation strategy (Risk Analysis, IQ/OQ/PQ, UAT)
- Evaluation of user needs. Communication and change management.
- Functional administration of the tool and clinical data. Cross-functional collaboration (Product Owner, QA, developers, IT, CROs, ...)

IPSEN
Innovation for patient care

2015 - 2022 MERCK | Semoy (45)
Head of process industrialization (1 year)
- Management of the department responsible for process validations and product industrialization (4 executives, 6 technicians). Part of the Senior Leadership Team.
- Project management (process validation, technology transfer, raw materials, ... etc)
- Improvement of process robustness (SPC, Design of Experiments, Troubleshooting) Budget/project management, technological monitoring, galenic expertise.

Manufacturing Manager – Japanese market (6 years)
- Co-management of a dry form manufacturing workshop (30 machines, 120 operators, 15 AMs) in compliance with Safety, Quality rules, and the production schedule.
- Product quality improvement: Management of deviations and investigations (-40%), communication with the Japanese client, ...
- Productivity improvement: OEE (+4%) and monitoring of KPIs.

MERCK

2010 - 2015 CENEXI | Fontenay-sous-bois (94)
Operational excellence leader - Black Belt (3 years)
- Management of 3 technicians and a network of 10 'green-belts'
- Deployment of Lean Six Sigma tools: 5S and SMED, VSM, FMEA, Problem Solving, Dashboards
- Implementation of a computerized tool for OEE (Overall Equipment Effectiveness) management + MES (Manufacturing Execution System).
- Training and deployment of 'Lean Culture', change management.

Night shift manufacturing manager (2 years)
- Management of a team of 50 operators (solid and sterile manufacturing and packaging)

cenexi

2009 (6 months) LSI | Gidy (45)
Continuous process improvement intern
- Reduction of scraps in tabletting and defects in non-sealed blisters (≈ €50k/year).

SERVIER
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2007 (4 months) Nippon Shinyaku | Odawara, Japon
Manufacturing operator
Technician on the production line: weighing, granulation, packaging, and analytical control.

日本新薬
NIPPON SHINYAKU CO., LTD.

Educational Background

2022 - 2023 *Data Scientist* (Openclassrooms & Centrale Supelec)
- Data cleaning, Modeling (Classification, Regression, Clustering)
- Practical projects: Building energy consumption, E-commerce customer segmentation, Image classification, Bank loan approvals.

2008 - 2010 Biotechnology Research Project (Thesis 2010): "Mastering cell culture processes for vaccine production" - Matlab modeling

2006 - 2010 ENSIC : School of engineering in Chemistry

2002 - 2006 Faculty of Pharmacy