Philippe Acquier

Data Analyst / Industry 4.0

EU Citizen able to work in EMEA timezone
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I am a curious and persevering scientist with a strong focus on data analytics and passionate about problem-solving. My experience includes data analytics for industrial processes, with a focus on statistics on raw data to optimize the process control, embedded sensors monitoring and dataviz through dashboard. My main language is Python 3 with a strong emphasize on NumPy, Pandas, and Scipy libraries.

I'm looking for a role of remote data analyst to help companies make a full use of their data, extracting the very essence of it and make it accessible.

Key Skills & Achievements

- **Complex data analysis:** Improved industrial process understanding using Python, pandas, numpy with analysis of complex data files (500+Mo/file).
- **Data visualisation:** Results presentation in a comprehensive way, adapted to the audience with Matplotlib, Seaborn, Plotly or Tableau.
- **Understanding customers' needs:** working with the customers (internal or external) to get their specific need and translate it into analysis.
- **Dashboards:** worked on company dashboard (Grafana) to implement production critical metrics obtained from monitoring analysis.

Programming languages and tools:

- **Programming environment:**
  - Python (Pycharm, VSCode, Jupyterlab)
  - Linux / Unix command & Bash
- **Version control:** Git
- **Stats Skills/Tools:**
  - Python 3 with libraries: Scipy, Statsmodels, SKLearn
  - Minitab
  - Excel
- **Database:** SQL (PostgreSQL)
- **Languages:** French: Native; English: Fluent (B2).

Experience

Data Analyst, AddUp, France
Global Industrial Metal Additive Manufacturing Solutions

Dec 2020 – Present

- Conducted extensive analysis of various parameters measured by embedded sensors at high frequency, resulting in a deep understanding of the process.
- Utilized Python and Jupyter Notebooks for data cleaning, pre-processing, and thorough analysis.
- Defined key performance indicators (KPIs) and created visually appealing visualizations including pictures, curves, graphs, and dashboards.

- Presented findings to industrial teams to enhance process robustness and efficiency.
- Assessed the impact of integrating new hardware/software through comprehensive data analysis.

Process Engineer, AddUp, France

Jun 2017 – Dec 2020

- Utilized data analytics techniques (ANOVA, design of experiment) to develop and optimize process parameters, resulting in improved efficiency and quality.
- Conducted 3D measurements and renderings to analyze and understand laminar flow within the machine, leading to enhanced performance and operational effectiveness.

R&D engineer, IREPA LASER, France
Specialists in laser processing and materials.

Nov 2013 – Jun 2017

- Leading Industrial studies and R&D projects on additive manufacturing machine
- Metallic material expert and leader of new metallic alloy development
- PhD student management

Reason for leaving: I got a chance to take on more challenges at another company.

Education/ Qualifications

- The complete Data Science Bootcamp 2022, Udemy,
- Machine learning in python with scikit-learn, France Université Numérique
- Python developer – complete formation 2021, Udemy

- PhD in Materials Science, University of Lorraine, École Doctorale Énergie Mécanique Matériaux, France
- Engineering degree in materials science, Polytech'Grenoble school, University of Grenoble 1, France

- PowerBI PL-300: Formation in progress
- FreeCodeCamp: Scientific Computing with Python (2023), Data Analysis with Python (2023), Relational Database (in progress)