Ali Lara

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Professional Summary

Data Scientist and Chemical Engineer with extensive experience in industrial process optimization and data-driven decision-making. Expert in Python, statistical and machine learning modeling, with a proven track record of enhancing productivity and workflow efficiency in fast-paced environments. Skilled in leveraging data to drive insights and solutions in industrial settings. Bilingual in English and Spanish, with a strong focus on continuous improvement and innovation.

Skills

- **Data Science:** Python (Pandas, Keras, Scikit-Learn, TensorFlow), Machine Learning, Statistical Analysis, Time-Series Data.
- **Process Engineering:** Mathematical Modeling, Process Optimization, Matlab, Hysys.
- **Project Management:** Team Leadership, Strategic Planning, Workflow Optimization.
- **Languages:** Bilingual in English and Spanish.

Professional Experience

Data Scientist / Managerial Roles, Amazon

Austin, TX & Columbus, OH | Nov 2020 - Present

- Developed Python-based data extraction tools, improving operational efficiency by 30%.
- Designed and implemented a random forest model for package distribution optimization, leading to a 20% reduction in errors and a 25% increase in productivity.
- Created Excel-based tracking tools, reducing process defects by 75% and managing over 120,000 packages daily.
- Utilized data-driven strategies to enhance team resource allocation, boosting productivity by 20%.
- Leveraged technical expertise in logistics problem-solving, processing hazmats and returns, and coaching new associates.

Chemical Engineer, MCL Control

Venezuela | May 2012 - Sep 2019

- Developed machine learning algorithms for predictive modeling in gas/oil processes.
- Engineered neural network models to estimate process simulation parameters, enhancing performance.

Lecturer, Universidad Central of Venezuela

Mar 2005 - Nov 2020

- Conducted research in chemical reaction engineering using machine learning for process evaluation.
- Lectured on industrial process simulation, numerical methods, and statistical modeling.

Projects

- **Python Automation for Logistics (2023):** Developed Python-based tools for logistics process automation, leading to improved operational standards and efficiency.
- **Solar Hydrogen Production Plant Design (2020):** Led research on sustainable energy solutions, utilizing mathematical modeling for plant optimization.
- **HAZOP Nodes Detection Tool (2021):** Developed a semi-automatic tool for HAZOP study facilitation in industrial processes.
- **Turbo-Compressors Performance Prediction (2019):** Used deep learning techniques to predict performance degradation in turbo-compressors.

Education

- **M.Sc. Chemical Engineering,** Universidad Central of Venezuela - 2008
- **B.Sc. Chemical Engineering,** Universidad Central of Venezuela - 1998