# Abdallah El Nehrawy

6th of October, Giza, 15525

📞 01027640439  ✉ abdallah.nehrawy@gmail.com  in linkedin.com/in/ne7rawy

## Education

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| **Egypt-Japan University of Science and Technology** | **Sep 2019 – Feb 2024** |
| *Bachelor of Science in Industrial Engineering - Supply Chain Management and Operations Research* | *CGPA 3.41* |
| **STEM Egypt** | **Sep 2016 – Jun 2019** |
| *STEM Certificate of Secondary Education* | *CGPA 3.72* |

## Relevant Courses

- Operations Research
- Supply Chain and Logistics Management
- Advanced Statistical Methods
- Simulation Modeling and Analysis
- Inventory Management and Control
- Management Information Systems
- Facility Layout and Material Handling
- Production and Operations Management

## Internships

**Industrial Investments Co. - Detergents Plant**  **Aug 2023 – Sep 2023**
*Supply Chain Management Intern*  *10th of Ramadan, Sharqia*

- Monitored stock levels, analyzed consumption patterns, and implemented efficient reorder points to minimize stockouts and excess inventory.
- Engaged in coordinating with suppliers to ensure timely delivery of raw materials and addressing any supply chain disruptions or issues.
- Contributed to the planning and coordination of logistics and distribution activities, optimizing routes and transportation methods to enhance cost-effectiveness and delivery efficiency.

**Ezz Dikheila Iron & Steel**  **Aug 2022 – Sep 2022**
*Planning and Control Intern*  *Dikheila, Alexandria*

- Built a model that predicts the annual production capacity using historical data.
- Used ERP system to report material requirements and production capacity for the following month.

## Projects

**Graduation Project** | *Simulation Modeling, Mathematical Modeling, Machine Learning*  **January 2024**

- Constructed a comprehensive 3-echelon supply chain simulation model encompassing suppliers, a factory with warehouses, retailers, and various transportation modes.
- Developed a machine learning model capable of predicting dynamic suppliers' performance and reliability.
- Created a robust mathematical optimization model optimizing for the lowest cost solution in supplier selection and order allocation scenarios.
- Devised a novel approach to seamlessly integrate the simulation, machine learning, and mathematical optimization models into a unified solution method. This innovative approach provided a comprehensive and efficient solution for complex supply chain challenges.

**Nissan's Assembly Line Simulation** | *Discrete-event Simulation using AnyLogic*  **January 2023**

- Identified Nissan's assembly line efficiency and utilization problems, leading to the need for workflow optimization.
- Designed and implemented a comprehensive workflow redesign using discrete-event simulation techniques to analyze and optimize dispatching and routing processes.

## Technical Skills

- *Intermediate* with simulation modeling of supply chain operations with **AnyLogic** and **Arena**.
- *Intermediate* with predictive modeling with **linear and logistic regression**, and **neural networks**.
- *Beginner* with predictive modeling with **classification**, **clustering**, and **decision trees**.
- *Advanced* in data analysis with **Excel** (Pivot Tables and Charts, XLookup, Macros and VBA, PowerPivot).
- *Intermediate* with statistical methods using **Python** for data science.
- *Beginner* with statistical methods using **R** for data science.
- *Beginner* with database management with **MySQL**
- *Beginner* with data visualization with **Power BI**.
- *Familiar* with inventory management, production planning, and IT integration using SAP ERP Modules.
- *Strong* **interpersonal skills** and experience working collaboratively with cross-functional teams to achieve project goals.
- Ability to **identify problems** and develop **innovative solutions** to improve processes and performance.
- *Excellent* **written and verbal communication** skills, with the ability to present complex ideas to diverse audiences.

References available on request