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Gerardo Vargas

Mechatronics Engineer & Data Scientist specializing in automation and generative AI to deploy scalable, real-world solutions.

Work Experience

AI Engineer **AI imagin Labs** **May 2024 – present**

US (remote)

- Creating dashboards for product analysis and KPI tracking using SQL and Python.
- Automating customer support with LLM agents, using Langchain and Python.
- Helping increase revenue with feature proposals based on data analysis.

Maintenance Country Manager **Katoen Natie** **Jan 2023 – May 2024**

Mexico Facilities Mexico

- Led a team of 15 technicians and 4 supervisors, ensuring and developing their continuous training, promoting communication with the team, and monitoring headcount.
- Prepared reports by analyzing data and generating KPIs, following the application of procedures in the Warehouse and maintenance areas according to ISO-9001 standards.
- Interacted with multiple high-profile clients and offered solutions for continuous improvement.
- Negotiated with suppliers in the national supply chain.

Maintenance Manager **Katoen Natie** **April 2016– Dic 2022**

Coatzacoalcos Facility Veracruz, Mexico

- Responsible for the maintenance of all the assets in the warehouse and infrastructure.
- Led a team of 10 technicians and 1 supervisor.
- Prepared reports by analyzing data and generating KPIs, following the application of procedures in the Warehouse and maintenance areas according to ISO-9001 standards.
- Negotiated with suppliers in the local supply chain.

Education and Certifications

- **Data science and AI certification,** Le Wagon, France. **2024**
- **Management Business Excellence,** Houston University. **2022**
- **Management skills,** Tecnologico de Monterrey (ITESM) **2018**
- **Engineering Degree, Mechatronics Engineer**, Tecnológico de Monterrey (ITESM). **2016**

Technologies and Languages

- Languages: Python, SQL
- Technologies: MySQL, GCP, Git, Pandas, Numpy, Jupyter Lab, Keras, Tensorflow.

Projects

- **Memesense**: Developed a multimodal AI model integrating ResNet50 (vision) and BERT (NLP) for meme classification, achieving high accuracy on a 7K-image dataset. Built a Flask API and Streamlit UI, deployed via Docker on Google Cloud Platform for real-time predictions.