Emiliano de la Garza Villarreal
Bilingual: English & Spanish

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EDUCATION

University of Tennessee Chattanooga, Major: Data Science (3.8/4.0) — Aug 2024 - Present
Computer Science Degree from Cleveland State Community College — Status - Graduated

TECHNICAL SKILLS

- **Languages :** Python – Java – SQL
- **Frameworks :** Pandas – Numpy – Pytorch – Seaborn – ScikitLearn
- **Technologies :** PowerBI – Excel

WORK SUMMARY

Eaton Corporation, Engineering Intern - Assistant to Lead technician — *2023 December - Present*

- I worked in my team to develop Excel tool able to analyze labor costs and identify savings through process improvements (Data Analysis, Excel, Financial Analysis, Process Optimization).
- I conducted time-studies on presses at the shop floor and worked in my team to create an Excel tool able to predict completion for most parts ran at the presses (Data Collection, Time-Study Analysis, Excel, Process Optimization).
- Completed training to serve as a backup for Power BI operations (Data Visualization, Power BI)

PROJECTS

- **Analysis of Car Prices (2000-2024)** : Utilized analytical tools such as Pandas and Matplotlib to create a presentation about what features affected car prices. The purpose of the project is to know more about the characteristics of cars that are in the perfect price range for a car buyer.
- **Trading Bot (Underway)** : I started by creating a data pipeline in python to obtain 500+ Excel files, which were then cleaned and migrated into a SQL database. I plan to use Power BI for data visualization to identify and analyze trends. My goal is to enhance the model's predictive power by creating several models and utilize advanced ensemble methods to make optimal investment decisions.
- **Building A Deep Learning Library From Scratch** : Micrograd uses backpropagation to update gradients of weights and biases. Calculating loss with the Sum of Squared Errors (SSE) allows us to reduce loss and improve model accuracy. The project deepened my understanding of how deep learning libraries like PyTorch work internally