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ROBERTA HENRIQUEZ

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Summary

Innovative Computer and Electrical Engineering student with a growing specialization in artificial intelligence and embedded systems. Experienced in developing machine learning models, predictive analytics dashboards, and hardware simulations. Dedicated to designing intelligent, data-driven systems that bridge the gap between electronics and software technology.

Skills

- Neural networks and deep learning (TensorFlow, Keras)
- Machine learning algorithms
- CSS
- JavaScript
- Analytical thinking and problem solving
- Python
- MATLAB
- Predictive modeling and regression analysis
- Knowledge representation
- Circuit design and analysis
- HTLM
- Data analysis and visualization

Work Experiences

Eurotranciatura USA LLC | Paris, TN
Document Control and Work Construction Procedure
08/2021 - 08/2021

- Implemented and maintained document control procedures to ensure accurate storage, retrieval and revision of documents.
- Reviewed and edited documents for clarity, consistency, and adherence to established formatting and branding guidelines.
- Developed and implemented work instruction procedures, including step-by-step guidelines, checklists, and safety protocols.
- Performed quality inspections on rotors and stators, ensuring they met industry standards and were free of defects. Conducted detailed assessments to identify faults, improving product reliability and reducing failures.

Stella Nera | Paris, TN
Shift Supervisor
06/2019 - 03/2020

- Assisted with inventory management, monitoring stock levels, and informing management of any supply needs.
- Managed cash register operations, including processing customer payments, issuing receipts, and maintaining accurate cash balances and prepared daily financial reports.
- Collaborated with the kitchen staff and management to ensure smooth service and delivery times. Anticipated customer, addressing any issues or concerns

Education

The University of Memphis - Herff College of Engineering | Memphis, TN
Bachelor of Science in Computer & Electrical Engineering
Expected in 05/2027
Relevant Coursework: Data Structures, Circuit Analysis, Discrete Structures, Electronics, Engineering Communications, Signals and Circuits.

Websites, Portfolios, Profiles

- www.linkedin.com/in/roberta-henriquez-223056255

Projects And Skills

- AI Image Classification Model (Python, TensorFlow/PyTorch, NumPy, Matplotlib.)
Built and trained a convolutional neural network (CNN) to classify images into predefined categories with over 90% accuracy. Applied data augmentation and regularization techniques to enhance model performance.
- Portfolio Website (HTML, CSS)
Developed a personal portfolio website to showcase technical projects and coursework, implementing a responsive design for both desktop and mobile devices.
- Predictive Analytics Dashboard (Python, Pandas, Power BI)
Designed an interactive dashboard for visualizing and forecasting data trends using regression and time-series analysis.
- Stock Price Prediction (Python, Scikit-learn, LSTM, Pandas)
Implemented machine learning models to predict stock price movements based on historical data.