

Eric Durbin

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Education

Purdue University, West Lafayette, IN May 2023
- BS in Computer Science, specialization in Machine Learning
Northridge High School, Middlebury, IN 4.0/4.0 GPA
- High School Diploma

Professional Experience

Zotec Partners Summer 2021, Summer 2022

Software Engineer Intern

- Worked on a team to create a web app to streamline the configuration of medical appeal forms
- Went through a full Agile/Scrum development cycle creating and deploying a project from scratch
- Gained full-stack experience using modern web development technologies

Dragonfly Footbags 2017-2018

- Ran day to day operations while maintaining the store website
- Gained valuable experience with FBA and Shopify while also packaging and shipping products

Miscellaneous Experience

Graph Neural Network Undergraduate Research 2021

- The goal of my research was to improve the performance of the SEAL GNN predictive model over the OGB-DDI dataset
- The result of the research was an equally accurate model with a 94% reduction in training time
- Gained experience working on a team of researchers and learning how to optimize machine learning models to improve their performance while improving or maintaining the predictive accuracy of the model

Project Experience

Image Enhancing with Generative Adversarial Networks (GANs)

The purpose of this project was to learn about GANs and create a model that, when given an input image, can enhance the resolution to create a clearer output image. The model utilized was based off the SRGAN and in the end was able to produce images that were clearer than other enhancing methods.

Loan Repayment Prediction

The purpose of this project was to predict whether a person will repay a bank loan using a variety of descriptive and numerical data. The model used was a Gradient Boosted Decision Tree and had a final predictive accuracy that was significantly better than random guessing.

Technical Skills

ReactJS, Angular, Python, Tensorflow, Keras, SQL Alchemy, FastAPI, Typescript