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eiguzman.github.io/portfolio

Data Systems Design AI Software Solutions Engineer

EDGAR GUZMAN



Profile

Motivated soon-to-be graduate with a strong foundation in statistical analysis, machine learning, and data visualization. Proficient in programming languages such as Python and R, with hands-on experience in developing predictive models and data-driven solutions. Adept at cleaning, analyzing, and interpreting complex datasets to inform strategic decision-making. Passionate about leveraging data to solve real-world problems and drive innovation. I am eager to contribute my technical skills and analytical mindset to a dynamic team.

Experience

Exploratory Data Analysis and Inference

Extensive experience in exploratory data analysis to uncover underlying patterns and insights within complex, semi-structured datasets. EDA is utilized for feature selection and improved model development. I have implemented statistical inference techniques to draw meaningful conclusions from multiple projects.

Artificial Neural Networks

Developed multiple ANNs with packages such as PyTorch and TensorFlow. Experienced with the structure of creation of Sequential models, Variational autoencoders, Generative adversarial networks, Computer vision, and Random Forest models.

Machine Learning with Music

Building a neural network using Variational autoencoders to generate a MIDI file of structurally sound piano compositions. I also have experience working with continuous output such as .wav formatted files

Skills

Core Concepts

Convolutional Neural Networks
Recommender Systems
PyTorch Deep Learning Models
Symbolic Music Generation
Quantum Computing Techniques

Software

Python, Java, R, C++, JavaScript

Professional

Team leader
Consistent under pressure
Efficient time management
Effective communicator
Reliable team collaborator
Adaptability

Education

UC San Diego

September 2023 – June 2025
Bachelor of Science in Data Science
Upper Division GPA: 3.66

Hobbies

Computer Building
Computer Programming
Cooking
Hiking

Languages

English, Spanish