

IAN RYAN

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EDUCATION

California State University Channel Islands | Camarillo, CA | 12/2024

Bachelor of Science: Computer Science

- [Artificial Intelligence Club] Member, 2023-2025
- [Network Security Club] Member, 2023-2025

Moorpark Community College | Moorpark, CA | 05/2022

Associate of Science: For Transfer In Computer Science

Associate of Arts: Natural Sciences And Mathematics

Associate of Arts: Liberal Studies

- [Fall, 2020] - Dean's List

RELEVANT COURSEWORK

Introduction to Artificial Intelligence/Machine Learning | Digital Image Processing | Image Processing and Pattern Recognition | Analysis of Algorithms | Automaton Languages and Computations | Societal Issues in Computing | Database Design and Theory | Software Engineering

RELEVANT PROJECTS

Deconvolution & Image Enhancement

- Applied **Wiener filters, Gaussian blur, and deconvolution** to enhance image clarity.
- Processed images (license plates, MRI scans, vintage photos) to reduce noise and improve sharpness.
- Addressed **rotational motion blur** challenges using iterative filtering techniques.

Seed Pattern Recognition

- Built a **pattern recognition model** for seed classification using **image segmentation**.
- Extracted features and applied **K-Means Clustering** for classification.
- Independently captured and processed training/testing images to refine model accuracy.

Multi-Class Classification Convolutional Neural Network

- Developed a **multi-class image classification model** for detecting humans and 17 animal classes.
- Managed **imbalanced dataset** (70% training, 20% validation, 10% testing) to reduce bias.
- Implemented **hyperparameter tuning** to mitigate overfitting and improve accuracy.
- Built a **user-friendly Jupyter Notebook** & presented results to technical and non-technical audiences, with future plans to integrate **YOLO for object detection**.

SKILLS

Linux

Python

PyTorch

Jupyter Notebook

Convolutional Neural Networks

Data Preprocessing

Deep Learning tools & frameworks

Deep Learning

Neural Network Modeling

Digital Image Processing

Recurrent Neural Networks

Image Recognition

Image Segmentation

Amazon SageMaker

ImageJ

CUDA

CUDNN

SOFT SKILLS

Public Speaking

Independent Problem Solving

Adaptability

Communication

CERTIFICATIONS

AWS Academy MLU -

Application of Deep Learning to Text and Images

AWS Academy MLU - Machine Learning through Application