

IAN RYAN

ianhryan@gmail.com | (805)433-5729 | Thousand Oaks, CA 91320

[LinkedIn](#) | [GitHub](#) | ianhryan.com

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 (Python, ImageJ)

- 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 (Python, ImageJ, JMP)

- 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.

Capstone: Human & Animal Classification Convolutional Neural Network (Python, PyTorch, Jupyter Notebook)

- 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

Neural Networks

Recurrent Neural Networks

Image Recognition

Image Segmentation

Amazon SageMaker

ImageJ

CUDA

Pop_OS!

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