

# Emanoel Manibog Agbayani

emanoelagbayani3@gmail.com | [LinkedIn](#) | [Github](#) | Palm Desert, CA

## WORK EXPERIENCE

---

### UCSD Esports

September 2022 – Present

Coach

San Diego, CA

- Using **OBS** and **Streamlabs**, conducted an in-depth analysis of over **300+ hours** of recorded gameplay pinpointing critical strengths and areas for improvement that shaped tactical strategies
- Provided **strategic leadership** and **mentorship** to **seven** players, fostering skill development, teamwork, and competitive performance.
- Utilized **Microsoft Excel** to create comprehensive game drafts, track player performance metrics, and develop strategic playbooks, ensuring well-informed and adaptable in-game decisions.
- **Coordinate** and **communicate** properly with our UCSD Esports Director and Board to ensure students follow the Code of Conduct.

## PROJECTS

---

### AI Trading Bot with Sentiment Analysis

January 2025 - Present

- Implemented **sentiment analysis algorithms** to process and interpret market sentiment from textual data, enhancing the bot's **predictive capabilities** and **trading accuracy**.
- Utilized **machine learning techniques** for model training and backtesting, achieving a consistent positive return in simulated environments and demonstrating robustness in volatile market conditions.

### Predictive Analysis of Hair Fall

December 2024 - Present

- Developed a machine learning model to predict hair fall risk based on key health and lifestyle factors. Utilized **data preprocessing**, **feature engineering**, and **supervised learning techniques** to achieve high model accuracy. With real world data, able to obtain **54% accuracy** on the whole dataset.

### Flocking Robotics Simulation with Autonomous Line Following

April 2023 - June 2023

- Developed a system for **multi-robot coordination inspired by bird flocking behavior**, programming three robots to operate in tandem with a leader robot following a set course & two followers tracking it.
- Using a **Pixy2 camera**, while implementing **line-following algorithms**, movement control, and inter-robot communication to ensure smooth navigation and adaptive formation.

## EDUCATION

---

### University of California, San Diego (UCSD)

September 2022 - Present

Bachelor of Science in Cognitive Science: Machine Learning and Neural Computation

San Diego, CA

- Cumulative: 3.09 GPA

### Relevant Coursework:

- Principles of Data Science, Programming/DataStructure for Data Science, Data Science in Practice, Intro to Python, Intro to Research Methods, Introduction to Statistical Analysis, Linear Algebra, Calculus III

## KEY SKILLS & PROGRAMS

---

**Languages** → Python, SQL, R,

**Notable Programs** → TensorFlow, Microsoft Excel, OBS, Tableau, PyTorch

**Notable Python Libraries** → NumPy, Pandas, Seaborn, Matplotlib Library, Scikit Learn

**Interpersonal Skills** → Respectful and compassionate, unwavering enthusiasm, flexibility in thinking and operation