ARMIN IRVIJE

San Diego, CA | 858.776.3169 | armin.irvije@gmail.com | linkedin.com/in/arminirvije | arminirvije.com

EDUCATION

University of California, Davis   **June 2024**
Bachelor of Science, Computer Science
Coursework: Machine Learning, Deep Learning, Object-Oriented Programming, Data Structures, Algorithms
Skills: Python, Pytorch, C++, Java, JavaScript, HTML, CSS, Git, SQL

EXPERIENCE

Machine Learning Research Assistant   **San Diego, CA**
SDSU Research Foundation   July 2024 - Present
- Developed an ML model for identifying DNA base modifications using a siamese neural network
- Conducted extensive data preprocessing, parameter tuning, and optimization to achieve **95%** accuracy
- Reduced model testing time by **50%** by implementing a **GitLab CI/CD** pipeline to automate data preprocessing, unit testing, model training, evaluation, and deployment
- Increased query speeds by **100%** through implementing a **MySQL** database for DNA sequence data, accelerating research analysis, and improving access to genomic information for the entire lab
- Tools used: Python, Pytorch, Numpy, Pandas, GitLab, Mlflow, CUDA

Computer Science Intern (remote)   **Dublin, Ireland**
Sports Impact Technologies - Startup that develops a wearable sensor to monitor head impacts   June 2023 - August 2023
- Developed the company's **first web presence** by creating a website from inception to completion, using HTML and CSS
- Articulated the company's mission, showcasing product features, and enabling customer engagement through email input
- Utilized **Figma** for UI/UX design and wireframing, translating design into a functional web application
- Led 5 remote presentations on website development processes, sharing methodologies, technical challenges, and solutions

PROJECTS

NBA Points Predictor | Hackathon Project

- Created an NBA points prediction model, achieving **95% accuracy** using regression techniques
- Analyzed 10+ seasons of player statistics to identify 7 key performance indicators that improved prediction by **40%**
- Tools used: Python, Flask, HTML, Pandas, Scikit-learn

MindtheAge | Healthcare Project

- Developed a mental health recommendation app that improved resource matching accuracy by **75%**
- Implemented a logistical regression model to classify mental health text inputs and provide personalized recommendations
- Tools used: Python, Scikit-learn, Streamlit

Batch Image Editor | Electron Project

- Programmed a cross-platform desktop application that does image background removal, customization, and file renaming
- Integrated Python-based image processing algorithms for batch processing multiple images
- Tools used: Electron, Python, Rembg, HTML, CSS, JavaScript

Habit Tracker App | Personal Project

- Made a **React Native** mobile app that enables users to track positive habits and break negative habits
- Implemented dual tracking systems with unique progress metrics: consistency counters for positive habits and time-since-relapse tracking with milestone achievements for breaking habits
- Tools used: React Native, **Expo**, JavaScript