JOSEPH KEELAGHER

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EDUCATION

University of Melbourne

Class of 2024

(B.Sc) Bachelor of Science in Computing & Software Systems

Parkdale Secondary College

Class of 2021

ATAR - 94.30

TECHNICAL STRENGTHS

Programming Languages Software Design

C, Java, Python, HTML (Basic), CSS (Basic), JavaScript (Basic) Algorithms & Data Structures, Software Design Patterns

MySQL

Databases

PROJECT WORK

Personal Website

Website

HTML, CSS, JavaScript

GitHub

- Implemented responsive design principles in CSS to ensure compatibility across various devices and screen sizes, providing a seamless user experience.
- Utilized JavaScript for interactivity, such as form validation and dynamic content loading, enhancing user engagement and interaction.

IMDB Movie Rating Predictor

Python (Sci-Kit Learn, Pandas, Matplotlib), Machine Learning

GitHub

- · Implemented multiple machine learning models (Linear Regression, Gradient Boosting, Random Forests) to predict IMDB movie ratings, achieving 75% accuracy.
- · Conducted data cleaning, feature engineering, and normalization to prepare the IMDB dataset for analysis.
- \cdot Applied cross-validation and hyperparameter tuning to enhance model performance and reduce overfitting.

'Tetress' AI Gameplay Agent

Python, Artificial Intelligence

GitHub

- · Developed and implemented a Minimax adversarial game-playing agent with alpha-beta pruning, enhancing search efficiency and decision-making speed.
- Designed robust state representation classes, improving problem formulation and facilitating the agent's strategic analysis.

PC Rhythm Game

Java (Maven, BAGEL, Gradle)

GitHub

- · Developed a modular, object-oriented ShadowDance rhythm game using Java and BAGEL, emphasizing abstraction and code reusability.
- · Created multiple levels with diverse gameplay mechanics, challenges, and music tracks to engage players.
- · Leveraged BAGEL framework features for efficient graphics rendering, input handling, and game loop management.