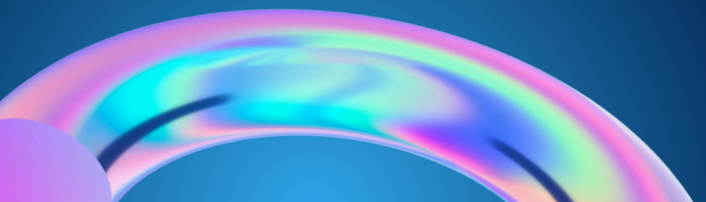
Match & Watch

Capstone Project

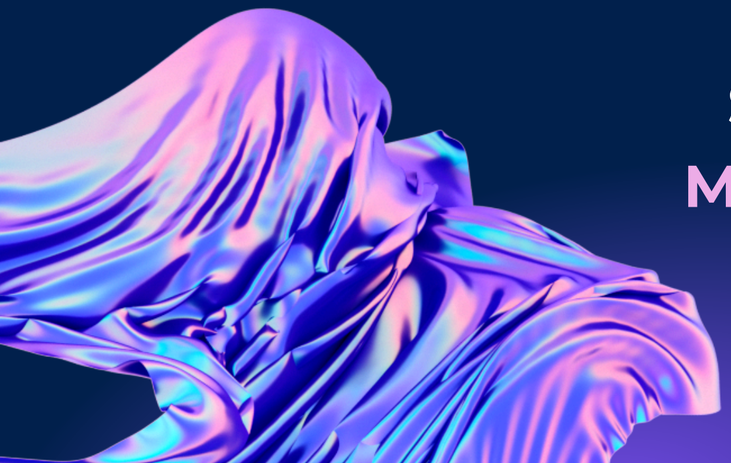
The Problem

Imagine sitting with your friends, wanting to watch a movie but unable to decide what to watch. Or perhaps you're alone one day and nothing on your watchlist appeals to you. What do you do?



The Solution

Introducing **Match&Watch**
a website that recommends movies tailored to your tastes, whether you're watching alone or with friends.
With **Match&Watch**, you can get five personalized movie recommendations in less than a minute by taking a quick and easy quiz.
Say goodbye to endless scrolling and indecision. Let **Match&Watch** find the perfect movie for any occasion!



Our Team

Aymen Daassi

UX/UI Designer
Frontend Dev

Louay Farah

Team Lead
Backend Dev

Laith Nayal

Machine Learning
Dev

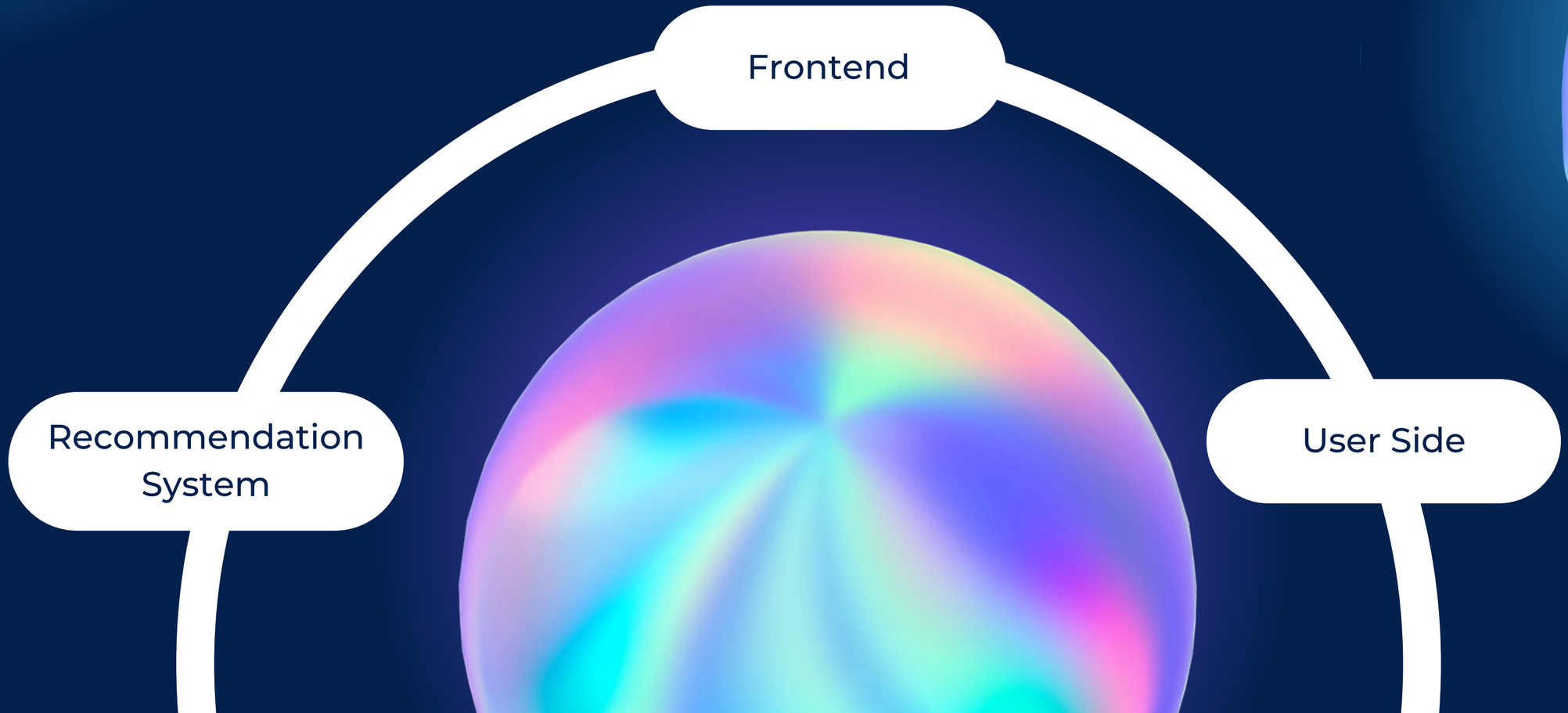
Karam Khaddour

Frontend Dev

Saleem Asekrea

Backend Dev

Microservices



Frontend Tech Stack

Vue JS
Progressive Framework

Vite
Optimized Tooling and Server

PrimeVue
Flexible Component Library

Frontend

- Single page web application with dynamic routing
- High Performance optimized Framework for scalable applications
- Sleek and Modern UI to deliver the best User experience
- Component based system for faster development and easy hierarchy
- Responsive Website

Backend Tech Stack

Python
Quick
Development

PostgreSQL
Advanced Relational
Database

Docker
Container Application
Development

Backend

- Structured the project as a microservice-based product
- Designed and implemented API endpoints for the user and the recommendation microservices.
- Designed a multi-user recommendation system.
- Created CI/CD pipelines with linting, testing, building, and docker deployment for all repositories using Github Actions

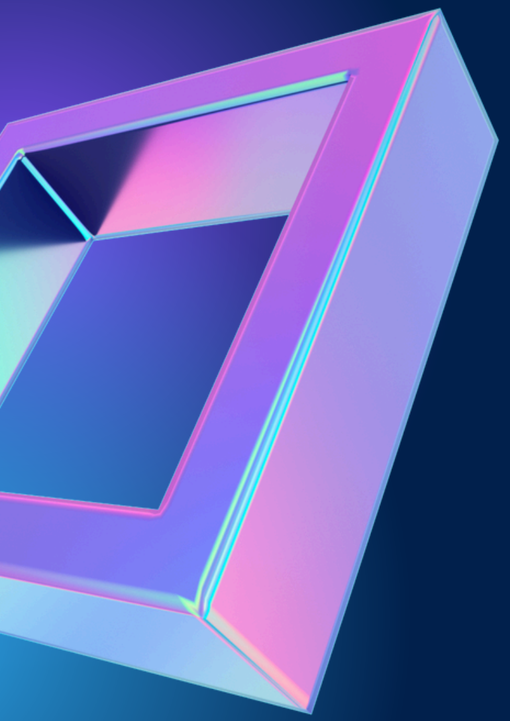
ML Tech Stack

Python
Quick
Development

Pytorch
Advanced Machine
Learning Library

AI / ML

- Experimented on multiple algorithm based and ML based approaches. Starting with embeddings-based approach for the MVP. T5 model for the first iteration, and integration BERT for better transformation performance.
- Experimented with various ways to combine embeddings to improve accuracy
- Scaled the model to handle a group of users.



Thank You