Methodologies Movie Recommendation System

Technologies stack

Front-end:

* Typescript
* React
* Babel + webpack (packaging)

Backend:

* Python + Typescript
* Microservice architecture
* Kubernetes + istio (service mesh)

Container orchestrator for easily managing and spinning containers on demand. Istio to ease inter service communication eg: request retry, service discovery.

* MongoDB + mongoose ORM
* Docker

Containerised services for easy deployment

* Cookies for user recognition instead of or until user decides to register.

Deployment:

* Circleci

Continuous integration & continuous delivery pipeline

Recommendation algorithms:

* Collaborative filtering using SVD (single value decomposition) or ALS (alternating least squares).
* Neural network model with user, item, metadata, implicit interactions, embeddings

Architecture diagram



Papers:

<https://storage.googleapis.com/pub-tools-public-publication-data/pdf/45530.pdf>