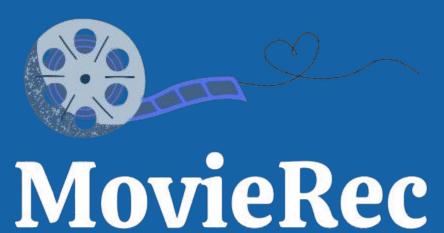
Agile Project:

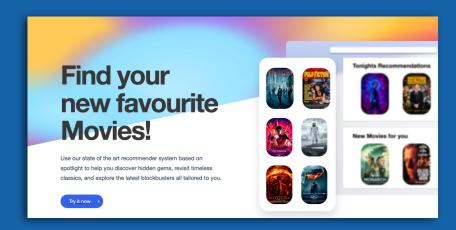


FR1 group: Alba, Alejandro, Carl, Clàudia, Joel, Max and Sam

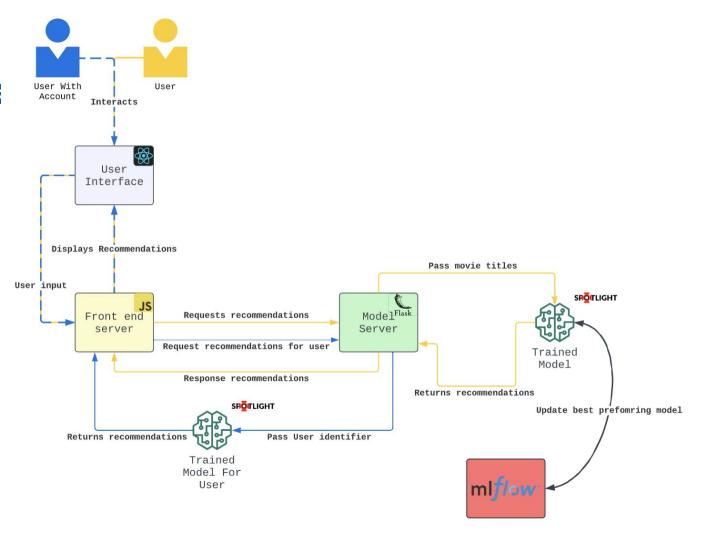
The product



Website with movie recommender using Spotlight.



Architecture



Agile Methodology

The full team

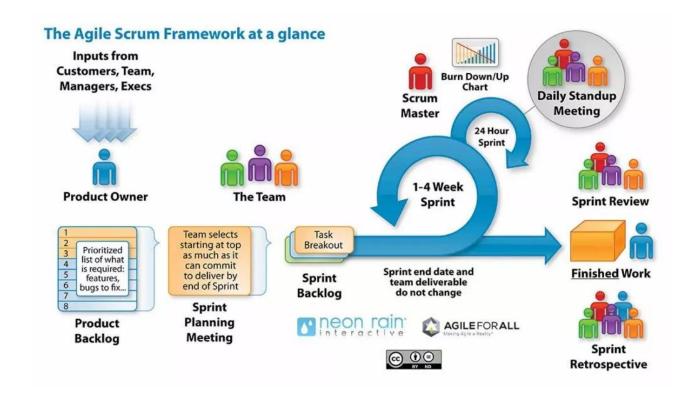




Index

- → Methodology
- ☐ Sprint 0
- → Model
- Back end
- Front end
- Demo
- Conclusions and Future Work

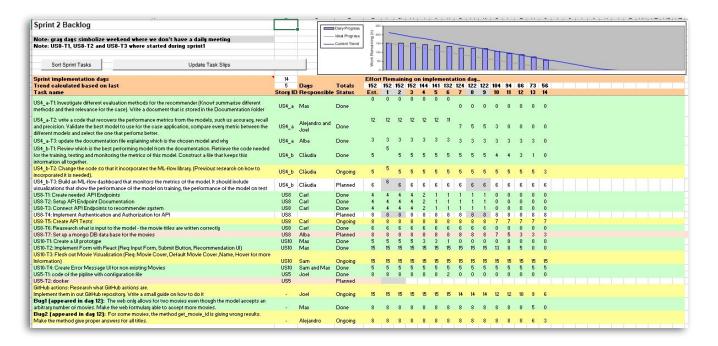
Scrum



Backlog

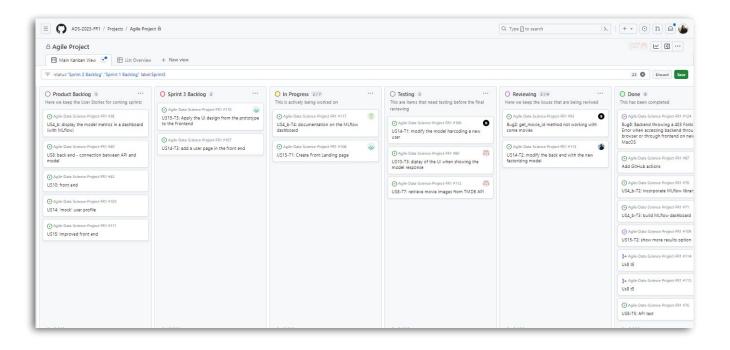




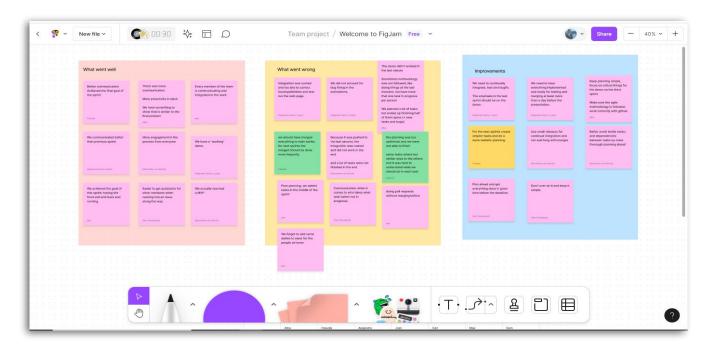


Kanban





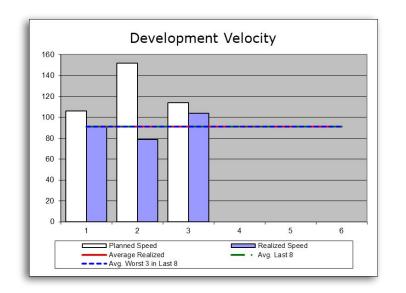
Meetings: —Retrospective

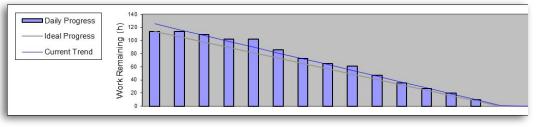




TheNumbers







LessonsLearned



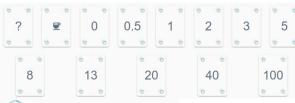
- Communication is key
- Learn from previous sprints



- Utilize the Methodology of Small Releases to ensure the stable usability by continuous integration
 - Embrace smaller tasks for rapid and incremental development
 - Maintain a functional version on the Main/Dev Branch
- Ensure compatibility across devices

-User Stories-

Story ID	Story name	Status	Size	Sprint	Priority
US0	US0: deploy the spotlight repository	Done	10	1	1
US1	US1: understand movielense database	Done	7	1	1
US2_a	US2_a: graphs and plots of the database	Done	20	1	3
US2_b	US2_b: dashboard of the database	Done	10	1	3
US3	US3: train spotlight with different models	Done	14	1	1
US11	US11: preprocess the data	Done	5	1	1
US4_a	US4_a: model metrics	Done	20	1 and 2	2
US4_b	US4_b: display the model metrics in a dashboard	Done	16	2 and 3	2
085	USS pipeline	Removed	50	////3////	////2////
US8	US8: connection between API and model	Done	42	2 and 3	1
US9	US9: backend	Done	20	1	2
US10	US10: front end	Done	40	2 and 3	1
10513//	US13: form based recommendation	Removed	///28///	////3////	
US14	US14: user profile	Done	25	3	3
US15	US15: improved front end	Done	25	3	2



ScrumPoker-online.or

- "Sprint 0"

US0: Deploy the spotlight repository

US1: Understand Movielens database

US2_a: Graphs of and plots of the database

US2_b: Power Point report of the database

US11: Preprocess the data

"Sprint 0"

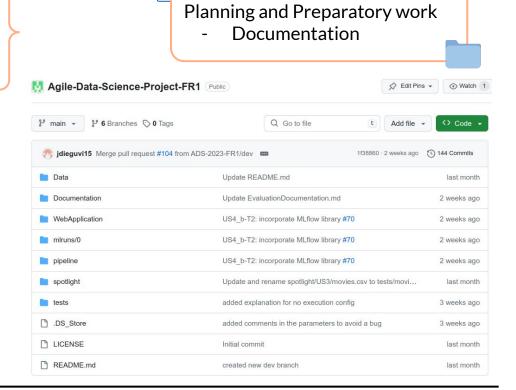
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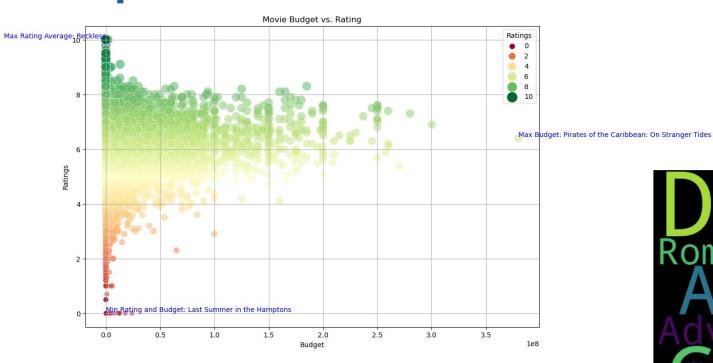
US11: Preprocess the data

Analysis of the data in order to understand what type of ML problem we are facing





- "Sprint 0"



Romance Crime War Land Marion Horror War War Land Marion Horror War War Land Marion Horror War Land Marion Horror

Word Cloud of Movie Genres

Model

US3: Train different spotlight models

US4_a: Explore model metrics

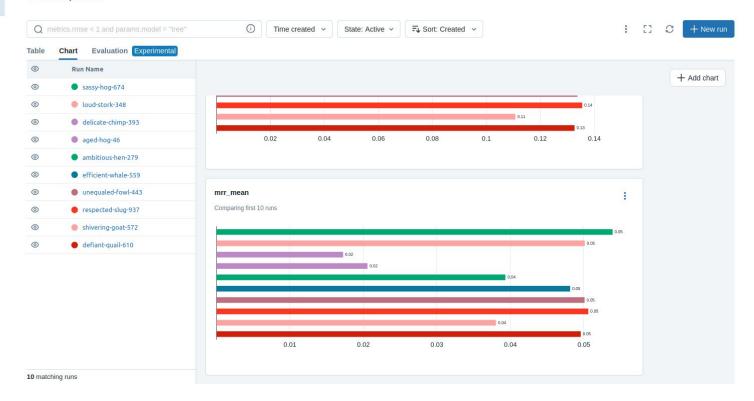
US4_b: Incorporate metrics onto

MLflow.

Baseline Spotlight Model 🖰 Provide Feedback 🖸

Experiment ID: 643726634236529072 Artifact Location: file:///home/edge/Documentos/DS/agile_ds/Agile-Data-Science-Project-FR1/pipeline/mlruns/643726634236529072

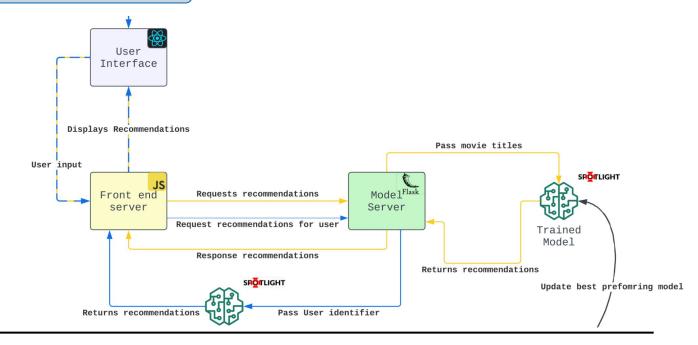
> Description Edit



- Back end

US9: framework for an API (backend)

US8: Connection between API and model







- Front end -

US10: Initial MVP Frontend

US15: Improved front end

US14: 'mock' user profile

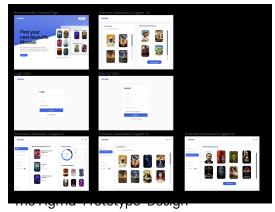
Front end

US10: Initial MVP Frontend

Target:

- Prototype a planned version of the final frontend design
- Implement a simplified version of it and make it possible to test the model through a UI with options to select movies and then to get the final output

The Results:



Movie Recommendation System

Enter five movies that you have seen and you enjoy

Add Movie

Movie List:

Sabrina (1995) X

Get Recommendation

The initial MVP Frontend Implementation

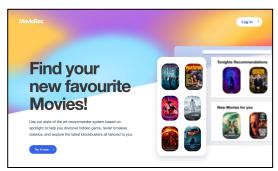
Front end

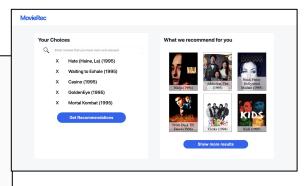
US15: Improved front end

Target:

- Actually apply the original Figma Design to the Recommendation Site
- Implement Routing and add a Landing Page, a Page-Not-Found-Page, A Login Page

The Results:



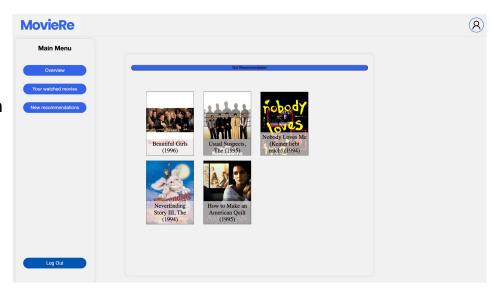


Front end

US14: 'mock' user profile

Target:

 Create a initial frontend implementation for the logged In section of the website initially created



-Future Work-

- Production with MLflow
- Web Publication

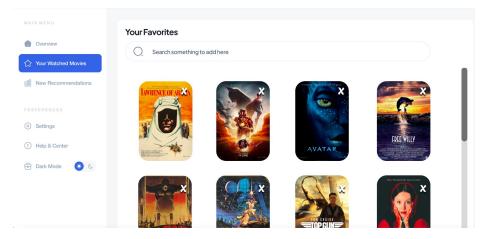


- Integration of Actual User Database
- Data from LetterBox



- Monder Tinder for Movies
- Engaging Netflix for Sponsorship
- Model Sale for €5M

-Conclusions



MovieRec

- Develop a working prototype with a backend environment that connects to the model and a functional front end
- Plan our work and how to continue from here.
- Able to implement the agile methodology, and learn from previous sprints.

THANK YOU!

Any questions?