

INDIVIDUAL PROJECT REPORT
INTELLIGENT CHILD CARE MATCHER AND WAITLIST OPTIMIZER



INDIVIDUAL
TEAM # 1

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1. PREFACE

About this document:

The purpose of this document an insight to my project journey in Intelligent Childcare Matcher and Waitlist Optimizer. This is specific to the individual understanding, learning and contribution to the project. Also, I talk a bit about myself and my past experiences and how this project helped me learn new things and how useful are they with the real-world cases.

1.1. PERSONAL BACKGROUND

I'm have 5+ years of IT experience and my former job was as a Techno-Functional Consultant for Finance in the ERP domain. As an ERP consultant I have good knowledge on retail and finance and have to deal with invoices and orders on a day to day basis. This work was more of stabilized and repetitive, Willingness to explore more and develop my knowledge in the Artificial Intelligent world motivated me to take a step ahead to pursue this course.

1.2. PROJECT JOURNEY

This project is very good add-on for both my curricular and personal traits. We are a team of 4 members. It was a great learning journey with my other team mate's expertise in many areas and have more experiences. Our batch being unfortunate to take up just online classes amidst Covid-19 situation. We did not get to work face to face which would have given a better exposure of each other's insights and suggestions but we had regular meet ups over google meet and zoom to discuss on the progress and updates.

We gathered individual ideas of interest and conducted discussions to choose the most promising and learning filled proposal among our team. Initially we had couple of ideas and we finally decided to do the Childcare recommendation system which had a better scope to utilize our skills that was learned in class. We further discussed the design, tools and techniques and started to implement the idea to reach the goal of being an outstanding application with good business benefits and values. Upon further rounds of weekly or time to time discussions we made educated changes for the betterment of the system. These meetings help me and drive me to be an efficient communicator in the team. My Team mates has good working experience and I learn a lot by working with them.

1.3. PERSONAL CONTRIBUTION

My contribution was with the sentiment analysis and web scrapping part of the project. It adds to the value of the recommendation system that it can give the sentiment score scrapped from various online forums/pages along with the recommendations which benefits the users to understand the recommendations better and needless to go through various pages/forum to investigate about the quality and trustworthiness of the Child care center.

I have worked on couple of recommendation systems using various other tools and I believe this is a unique feature that makes our recommendation system stand out or adds to the system value.

Other contributions on different areas:

Project proposals:

Came up with couple of ideas that contribute to incorporate the techniques and knowledge learnt in class/course.

Project Meetings:

Driving the regular calls and discussions, contributions to discussions on the Technical and Functional aspects of the project

Documentation:

Understanding of the implemented system and documenting the flow. Upon feedback from the team necessary changes were incorporated and contributed other write up in the report. Elaborated the system architecture design and other editing and formatting done to take it to completion.

Knowledge Gathering:

Contacted the Child Care Principle and conducted an interview and sent out email that elaborates our system (Waitlist Optimization) to know how interested they would be to take up the system and the pain points that they face which can contribute to future works/enhancements. These has been documented in the Appendix of our final report.

1.4. LEARNINGS

Understanding of KIE drools and integration with Spring Boot was quite challenging for me. I approached to seek support of my team mate Mave who is the domain expert and good with integration who has done the integration later with Python (Flask) and SQL DB and the work was a good learning for me. This was helpful for me to figure out where I

was lagging and has been a great exposure and experience to try out integrating the system.

1.5. HOW THE LEARNING USEFUL FOR ME

Most of the knowledge taught in class was interesting and useful. For me Evolutionary theory was interesting and Darwin's theory also places a role in intelligence world. We have used GA concepts in our project as well. We have also used fuzzy logic which is one of my area of exploration and interest as well.

On the other hand, I see Optaplanner to be more fun to learn and it's a great help in scheduling and planning. As with my previous experience as an ERP Consultant these planning/scheduling will be of great help with procurement domain, Warehouse and transportation.

1.6. CONCLUSION

This project has been a great journey for me to work with my team. I had new learnings and understood concepts and learned a lot from domain expert in our team. Looking forward to learn more and enhance my knowledge.