

# PHARMA FEEDBACK RECOMMENDER

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# PHARMA FEEDBACK RECOMMENDER USING MACHINE LEARNING



The Pharma Feedback Recommender using reviews is a data-driven system designed to assist healthcare professionals, patients, and consumers in making informed decisions about pharmaceutical products. The project aims to analyze user reviews, product descriptions, and ratings of various pharmaceutical products to provide personalized recommendations.

The Pharma Feedback Recommender using reviews seeks to provide valuable and personalized recommendations for pharmaceutical products, ultimately enhancing the decision-making process for healthcare professionals, patients, and consumers. It aims to make it easier for users to find the most suitable medications and healthcare products based on real user feedback and reviews, contributing to informed healthcare choices.

# DATASETS



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
url	DrugName	rating	effectiveness	sideEffect	condition	benefits	sideEffect	comments	Review												
2202	enalapril	4	Highly Eff	Mild Side	managem	slowed	cough, hy	monitor blood pressure , weight and asses for resolution of fluid													
3117	ortho-tri-c	1	Highly Eff	Severe Sic	birth prev	Although	Heavy Cyc	I Hate This Birth Control, I Would Not Suggest This To Anyone.													
1146	ponstel	10	Highly Eff	No Side Ef	menstrual	I was usec	Heavier bl	I took 2 pills at the onset of my menstrual cramps and then every 8-12 hours took 1 pill as needed for about 3-4 days until cramps w													
3947	prilosec	3	Marginally	Mild Side	acid reflu	The acid r	Constipati	I was given Prilosec prescription at a dose of 45mg per day. Medication was taken once, every morning before eating. Each treatme													
1951	lyrica	2	Marginally	Severe Sic	fibromyal	I think tha	I felt extre	See above													
2372	propecia	1	Ineffectiv	Severe Sic	hair loss	after takir	Low sex d	one pill once daily													
1043	vyvanse	9	Highly Eff	Mild Side	add	My mood	a few exp	I had began taking 20mg of Vyvanse for three months and was surprised to find that such a small dose affected my mood so effectiv													
2715	elavil	10	Considera	No Side Ef	depressio	Although	None.	One a day, taken about an hour before bedtime.													
1591	xanax	10	Highly Eff	No Side Ef	panic diso	This simpl	I really do	I first started taking this at 3 times per day with .25 mg pills. I was advised not to take as needed with my panic attacks as that would													
1686	claritin	1	Ineffectiv	Extremely	allergies	none - did	I had som	took one 10 mg pill nightly.													
458	flagyl	7	Considera	Moderate	bacterial v	I experien	I did get a	I took the antibiotic as prescribed every day, twice a day, one pill each time. My Bacterial Vaginosis cleared up after treatment. How													
3479	dextroam	8	Highly Eff	Moderate	add	Smoother	Dexerine	Switched from Adderall to Dexedrine to compare the effects. Dexedrine is simply dextroamphetamine while Adderall is a mixture													
959	sarafem	8	Considera	Mild Side	depressio	I found th	My sides e	This was prescribes to me for treatment for depression, seasonable disorder and hormonal irritability. I have gone off this medica													
928	latisse	9	Considera	Mild Side	sparse eye	For the	My upper	For the first 6-8 weeks I used one drop every night applied to upper lash base with a small disposable brush. After my lashes had g													
2643	aldara	4	Considera	Severe Sic	skin cance	Aldara did	I felt an oi	I used 1/4 of a packet(5% cream) on just my nose every other night and on alternating nights I put on an entire packet on my entire													
3692	effexor-xi	8	Highly Eff	No Side Ef	anxiety	reduction	no side ef	took medication for 5 to 6 years. Very hard to get off this drug. I liked the way my anxiety was controlled, but it also inhibits all em													
338	neurontin	6	Moderate	No Side Ef	nerve disc	I'm	I have no	I take 600mg of Gabapentin three times day. It seems to be effective but I feel I need a hire dosage as the longer I take it the more I													
3201	omnicef	1	Marginally	Severe Sic	sore throa	don't know	My one ye	Thanks													
2566	klonopin	8	Considera	Mild Side	generalize	Very good	Fatigue ca	Used for general anxiety and as an adjunct for depression and chronic pain. Very good at alleviating any anxiety and jittery feelings													
723	dovonex	6	Moderate	No Side Ef	psoriasis	Controlled	a "halo" a	I found this time-consuming to apply 1-2 times daily. Also, due to the "halo" effect, it was a little precarious to apply as well.													
305	protopic	8	Highly Eff	Moderate	eczema	cure the e	skin	to apply once a day afeter cleaning the skin, and avoid direct sunlight													

# EXISTING SYSTEM

An existing pharmaceutical feedback recommender system is a software application or platform designed to help healthcare professionals, patients, and consumers make informed decisions about medications and treatments. It leverages data analysis, medical expertise, and user input to provide personalized medication recommendations.

# PROPOSED SYSTEM

The proposed pharmaceutical feedback recommender system is an innovative software solution aimed at helping healthcare professionals, patients, and consumers make informed decisions about pharmaceutical products. It utilizes advanced data analysis, natural language processing, and machine learning techniques to offer personalized recommendations based on user reviews and feedback.

# ALGORITHM

Multiple machine learning techniques were used to construct the pharmaceutical feedback recommender system which includes Logistic Regression, collaborative filtering algorithms such as matrix factorization, and classifiers such as LGBM, Decision Tree, and Random Forest.

Collaborative filtering algorithm:-

it is a family of algorithms that find similar users or items and calculate ratings based on ratings of similar users.



## Front-end used:-

- HTML
- CSS
- JAVASCRIPT

## Back-end used:-

- Python
- SQL

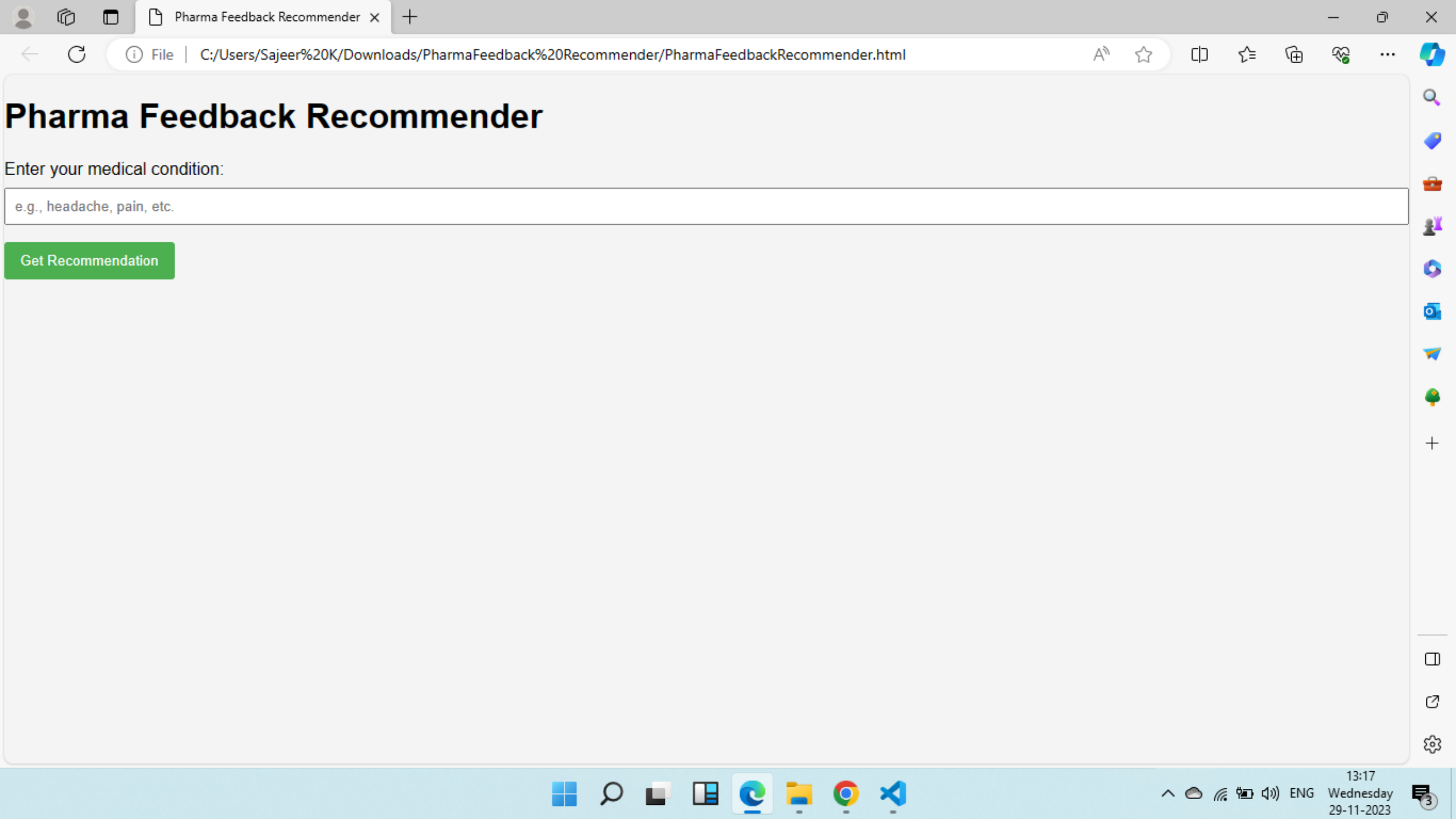
## System requirements:-

- OS: Windows
  - RAM: 3GB
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## EXPECTED RESULT AND ANALYSIS

The data consists of six components: the name of the drug used, the patient's rating, the patient's condition, a valuable number that indicates the number of people who experienced the benefit of the rating, the date the review was written, and a 10-star patient rating that indicates how the patient is doing overall satisfactory. According to the user's star rating, each review in this work has been categorized as positive or negative. Positive reviews are reviews with five or more stars, while negative reviews vary from one to five stars.



# Pharma Feedback Recommender

Enter your medical condition:

e.g., headache, pain, etc.

Get Recommendation



# Pharma Feedback Recommender

Enter your medical condition:

pain

Get Recommendation

Recommended Drug: Tylenol  
Review: Provides quick relief for various types of pain.



# THANK YOU

