

SANGEETA DAS

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EDUCATION

Mechanical Engineering specialized in Advanced Manufacturing	2019 - Present
Indian Institute of Information Technology Design and Manufacturing, Kancheepuram	Chennai, Tamil Nadu
	(Cgpa :- 8.17)

PROJECTS

Entertainment Engine

- A content-based recommender system that recommends movies similar to the movie the user likes and analyzes the sentiments of the reviews given by the user.
- Used k-nearest neighbor algorithm with neighbor based collaborative filtering model on MovieLens dataset that contains 100004 ratings across 9125 movies for 671 users. All selected users had at least rated 20 movies.
- Improved methodologies to save an average of 12 minutes per movie with User coverage of 95.38% and Novelty (Average Popularity Rank of the recommendations) of 525.15 .

Customer Segmentation

- Developed a model that allows to anticipate the purchases that will be made by a new customer, during the following year ,from its first purchase.
- Analyzed the content of an E-commerce database that lists purchases made by ~4000 customers over a period of one year (from 2010/12/01 to 2011/12/09) and classified them using various algorithms like Support Vector Machine Classifier (SVC)(Confusion matrix and Learning curves), Logistic regression, k-Nearest Neighbor, Decision Tree, Random Forest, AdaBoost, Gradient Boosting Classifier.
- Finally used the VotingClassifier method of the sklearn package to analyze different classifiers and combined Random Forest, Gradient Boosting and k-Nearest Neighbors predictions to improve the quality of the classifier by a precision of 75.46% .

AI Messenger Chatbot using Watson

- Built a chatbot that is able to converse with customers & generate a booking
- Explored Intents, Entities and Dialog to create a conversational AI
- Integrated the chatbot with Facebook Messenger

SKILLS

Programming Languages :	SQL , R , Python , C , C++
Technical Skills :	Data manipulation, Data analysis , Data visualization , Data Mining, Data Modeling, Model building , testing and deploying
Courses :	Data Analytics , Design of Experiments , Fundamentals of Artificial Intelligence , Machine Learning
Machine Learning Platforms :	Jupyter Notebooks , MATLAB , IBM Watson
BI Tools :	Tableau , Power BI
Relational Databases Tools:	MySQL , IBM db2

CERTIFICATIONS

Python for Data Science , AI and Development - Coursera
Using Python to Access Web data - Coursera
Python Data Structures - Coursera
Programming for Everybody (Getting Started with Python) - Coursera
Fundamentals of Artificial Intelligence - NPTEL

VOLUNTEER

Member of Mars Rover Society , IIITDM	2020 - 2021
Institute Innovation Council Volunteer	2020 - 2021
Aurora Art Club Core	2021 - 2022