NANDINI KODALI

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Hyderabad,India

Education

Mahindra University, Hyderabad
BTech - Computation and Mathematics
Expected Graduation Date: August 2024
Grade Level: 5th Semester of Engineering

Experience

Mahindra University, Hyderabad
Research Intern
June 2022 - August 2022

- Studied Logistic Model and Neural Networks involving Delay Differential Equations
- Provided analysis on stability of various DDE models
- Tools used: MATLAB, LATEX

Projects

Movie Recommender System:

- Created a recommender system, with a website which provides the user 5 movies similar to the one mentioned.
- This is a content based recommendation system.
- Converted the factors such as, overview, genre, cast and crew, to vectors using 'Bag of Words'
- Found the cosine distance between the vectors as a measure of how similar two movies are
- https://github.com/Kodali-N/Movie_recommender

Customer Churn Prediction:

- Performed EDA for gaining insights on different variables
- Used One Hot Encoding on categorical variables. And StandardScalar to bring different columns onto the same scale
- Trained and tested models such as, Logistic Regression Model, Support Vector Machine, K-Nearest Neighbours, Decision Trees, Random Forest. Out of all, the Logistic Regression model gave the highest accuracy of 81.14%. So, used the same for predicting the probability.
- https://github.com/Kodali-N/CustomerChurnPrediction

Customer Segmentation:

- Used KMeans unsupervised learning algorithm
- Decided on the number of clusters using 'Elbow Method'
- Found both, Univariate and Bivariate clusters
- https://github.com/Kodali-N/CustomerSegmentation

Skills

- Python, R, C, SQL, MATLAB
- Numpy, pandas, scikit-learn, Sea born, keras, OpenCV, TensorFlow, Pytorch
- PowerBI
- Web scraping, Data visualization, Machine Learning
- Problem solving, communication, critical thinking, team player

Certifications/Achievements

- IITM Data Science and AI (ongoing)
- NVIDIA Student Ambassador training program (Technology: RAPIDS) (ongoing)
- University Merit Scholarship (AY 2021-2022)
- Late Prof. Vasudeva Murthy Memorial Merit Scholarship (AY 2022-2023)
- Member of University Mathematics Society

Core Courses

• Calculus and ODE • Linear Algebra • Complex Analysis • Real Analysis • Abstract Algebra • Graph Algorithms • Probability and Statistics • Numerical methods • Number theory and Cryptography • Optimization techniques • Functional analysis • Stochastic Processes • Computation Methods for PDE • Advanced linear algebra • Financial Mathematics • Introduction to CS • Data structures and algorithms • Theory of computing • Operating systems • Design and Analysis of Algorithms • Database management systems