

**WiDS ‘22 - ‘23 Final Documentation**

**UID:25 Movie Recommendation System**

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**Introduction to Problem Statement**

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| Given a data set of movies and their genres and we need to recommend a movie to a person based on there watch history |

**Existing Resources**

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| Data Set of 85k Movies with their respective genres  Dataset of ratings of Movies  Data Set of Related Movies |

**Proposed Solution**

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| Converted text data into numerical using TFDI vectorization. Performed data analysis and data preprocessing and applied Nearest Neighbors Algorithm . |

**Methodology & Progress (Mention the work done week-wise)**

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| Week-1: Basics of Python  Week 2: Reading about the data and how to perform feature engineering, data preprocessing  Week3: Basic ML models and Basics of NLP  Week4: Different types of Recommendation Systems  Week 5: Report and code submission |

**Results**

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| Please add the link to drive folder/ github page consisting of code files and reports  GitHub: - https://github.com/PALAPATISUNEELREDDY/WIDSProject/tree/main/MovieRecommenderSystem-main |

**Learning Value**

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| Learned the basics of machine learning and different algorithms which are useful for recommending engine type of problems . Learnt Basics of Natural Language Processing. Learn different libraries in python like sklearn, scipy. |

**Tech-stack Used.**

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| **Python**  **Python Libraries: -Numpy ,pandas,Matplotlib,Seaborn,Sklearn,Scipy,Random** |

**Suggestions for others**

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| This is learning curve and joyful ride for someone who is interested in the field of Data Science and movies. |

**Contribution by each Team Member**

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| It was done alone |

**References and Citations**

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| There are no references and Citations |