

Parvatini Manideep

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SKILLS

- **Programming Languages:** Java, Python, C++.
- **Machine Learning & AI:** Scikit-learn, TensorFlow, Keras,XG Boost.
- **Data Science & Analytics:** Pandas, NumPy, Matplotlib, Seaborn.
- **Tools/Platforms:** Git, PyCharm, Google Colab, IntelliJ.
- **Soft Skills:** Team Collaboration, Leadership , Adaptability, Time Management.

PROJECTS

Book Recommendation System:

- Developed a KNN-based Book Recommendation System to suggest books based on user preferences and popularity. April 2024
- Designed a content-based filtering approach using book metadata, ratings, and author information.
- The system leverages Random Forest Regression to predict book ratings and uses KNN for personalized recommendation.
- Built a KNN-based recommendation model for book suggestions based on similarity metrics.
- Achieved **Mean Absolute Error(MAE) of 0.30** and **0.45 of K-Nearest Neighbor(KNN)**.

Tech: Scikit-learn, Machine Learning Algorithms (Random Forest Regressor, KNN), Matplotlib/seaborn.

Next Word Generator:

April 2024

- Developed a NLP-based Next word prediction model using Long Short-Term Memory networks to generate contextually relevant next words based on input text.
- Applied categorical cross-entropy loss and Adam optimizer to enhance training efficiency.
- Achieved an **accuracy of 75.5%**,demonstrating effective sequence learning and text generation capabilities.
- Optimized model performance through hyperparameter tuning, adjusting batch size, embedding dimensions, and dropout layers.
- Deployed the model to generate context-aware text suggestions based on user input.

Tech: Python, Tensorflow, Keras, LSTM, NLP, Tokenization, Embedding's, Matplotlib.

Weather Prediction:

September 2024

- Developed a weather prediction model leveraging Ridge Regression to forecast tomorrows maximum temperature based on historical weather data.
- Implemented time series forecasting by shifting Tmax values to create a target column representing the next day's temperature.
- Achieved performance evaluation using Mean Absolute Error (MAE), effectively quantifying the difference between predicted and actual temperatures.
- Enhanced model accuracy through feature engineering, incorporating percentage differences between rolling averages and actual values.

Tech: Scikit-learn, Pandas, NumPy, Ridge Regression, Feature Engineering, Matplotlib.

CERTIFICATES

- Generative AI by Coursera. April 2024
- Design & Analysis of Algorithm. April 2024
- Data Structure and Algorithm by Geeks-for-Geeks. July 2024
- Cloud Computing by NPTEL November 2024

ACHIEVEMENTS

- Hacker Rank: 4-star rating in Python & Java. March 2025

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 6.0 August 2022 – April 2026
- **Sri Chaitanya College** Hyderabad, Telangana
Intermediate; Percentage: 74.2% July 2020 - March 2022
- **Sri Chaitanya Techno School** Hyderabad, Telangana
Matriculation; Percentage: 100% April 2020