

Prasad Dasari

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SKILLS

- **Languages:** Java, C++, Python, C
- **Frameworks:** HTML and CSS
- **Tools/Platforms:** Visual Studio Code, MySQL, Google Colab
- **Soft Skills:** Critical Thinking, Team Player, Adaptive Learner, Project Management

PROJECTS

- **Evaluation of Autocomplete Systems: Word Embedding vs. N-grams:** November 2024
 - Designed an autocomplete system using N-gram and Word2Vec models to predict the next word based on input text.
 - Implemented using a Wikipedia dataset containing 101,190 words, structured into 1,225 rows and 1 column for training and evaluation.
 - Cleaned the text by removing punctuation, stopwords, and special characters, then tokenized and lemmatized for better model performance.
 - Developed N-gram (trigram) and Word2Vec models, comparing their performance in terms of accuracy, keystroke savings, and response time.
 - Processed the dataset, trained models, evaluated predictions, applied smoothing techniques, and measured performance with keystroke savings and accuracy metrics.
 - Achieved 0.924 accuracy, 6.20 keystroke savings, and 0.016s response time, proving to be the faster and more efficient approach.**Tech:** Python, Gensim, NLTK, Matplotlib
- **Parkinson's Disease Prediction:** April 2024
 - Developed a machine learning model to predict Parkinson's disease using patient data, focusing on early diagnosis.
 - Implemented data collection, preprocessing, and model training techniques to improve prediction accuracy.
 - Compared the performance of Random Forest, K-Nearest Neighbors, and Support Vector Machine classifiers.
 - Optimized model accuracy through hyperparameter tuning, achieving 91.4% accuracy with Random Forest.
 - Enhanced generalization capabilities for real-world applications using voice-based data analysis techniques.**Tech:** Python, Pandas, NumPy, Scikit-Learn

CERTIFICATES

- IBM DevOps and Software Engineering November 2024
- Mastering in Data Structures and Algorithms June-July 2024
- Dynamic Programming, Greedy Algorithms April 2024
- NLP with Python for Machine Learning Essential Training February 2023
- Python (Basic) by Hacker rank December 2022

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.25 Since September 2022
- **Sri Chaitanya Junior College** Hyderabad, Telangana
Intermediate; Percentage: 85.4% August 2020 - May 2022
- **Akshara High School** Korutla, Telangana
Matriculation; Percentage: 100% June 2019 - April 2020