Billakanti Rishith Kumar

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# Skills

* **Languages**: C++, Python, C, Java
* **Frameworks**: HTML and CSS
* **Tools/Platforms**: AWS, MySQL, Anaconda
* **Soft Skills**: Team Player, Project Management, Adaptability

# Projects

#### Deaf Sign language Prediction November 2024

* Developed a Deaf Sign Language Prediction system using a Convolutional Neural Network (CNN) model to recognize and interpret sign language gestures.

#### Collected and pre-processed sign language gesture images, ensuring proper scaling, augmentation, and normalization for better model performance.

#### Trained the model using labeled sign language images, optimized accuracy with techniques like dropout and batch normalization, and evaluated performance using metrics like accuracy and loss.

#### The model can assist in communication for the deaf community by translating sign language into text or speech for better accessibility

**Tech:** Python, Matplotlib, CV2, Scikit-learn**,** Machine Learning (Random Forest)

#### Liver Patient Prediction Model April 2024

* Developed a machine learning model to predict liver disease in patients using classification algorithms.
* Utilized Pandas and NumPy for data preprocessing, Scikit-learn for model building.
* Matplotlib/Seaborn for data visualization including a correlation heatmap for feature analysis.  
  **Tech:** Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Machine Learning (Random Forest, SVM, Logistic Regression, Decision Tree Classifier)

#### Spotify Music Recommendation System April 2024

* Developed a music recommendation system using collaborative filtering to suggest personalized songs recommendations.
* Utilized Pandas and NumPy for data preprocessing, Scikit-learn and SciPy for model implementation, and Streamlit for an interactive user interface.

**Tech:** Python, Streamlit, Pandas, NumPy, Scikit-learn, SciPy, Collaborative Filtering.

#### Class Rank Management System: December 2022

* Developed a system to manage and update student rankings based on their marks.
* Implemented functionality to dynamically sort students in descending order of marks and update rankings when scores are modified.
* Utilized dictionary operations for efficient data storage and retrieval.  
  **Tech:** Python, Dictionaries, Sorting, User Input Handling.

# Certificates

* Cloud Computing (NPTEL) October 2024
* Generative AI (Coursera) May 2024
* Dynamic Programming, Greedy Algorithms May 2024

* Mastering Data Structures & Algorithms using C and C++ (Udemy) November 2023
* Programming in C++: A Hands-on Introduction (Coursera) November 2023

# Education

**Lovely Professional University** Phagwara, Punjab

### Bachelor of Technology - Computer Science and Engineering; **CGPA: 6.94** Since August 2022

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**Maasters Junior College**  Hyderabad, Telangana

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### Intermediate; **Percentage: 89%** April 2020 - March 2022

**Sri Chaitanya Techno School**  Hyderabad, Telangana

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### Matriculation; **Percentage: 100%** April 2019 - March 2020