

# Sreenidhi Guda

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## Summary

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Dedicated and motivated third-year B.Tech student with a strong foundation in AI, ML, DL. Passionate about leveraging technical skills to solve real-world problems and contribute to innovative projects. Seeking opportunities to apply my knowledge and grow professionally in a dynamic environment.

## Education

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**B.Tech : Computer Science and Engineering (AI&ML) – 8.69 CGPA (As of Semester 5)**

B V Raju Institute of Technology, Narsapur

**Telangana State Board of Intermediate Education – 97.3 % (2022)**

Sri Chaitanya Junior Kalasala, Hyderabad

**Secondary School Certificate – 10 GPA (2020)**

Sri Chaitanya School, Hyderabad

## Projects

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### AI-POWERED ALLERGEN PREDICTION USING PROTEIN LANGUAGE MODELS

- The project builds a model to predict whether a protein is an allergen or not. It collects 16,058 protein sequences from trusted databases and converts them into 320-dimensional embeddings using pretrained models like ESM or ProtBERT. A CNN-RNN hybrid model is designed — CNN extracts local features while RNN captures sequence patterns. The model is trained with techniques like dropout and L2 regularization and evaluated using metrics like Accuracy, MCC, and AUC to ensure good generalization and performance.
- Tools used:
  - Pandas, NumPy – Data processing and handling
  - Scikit-learn – Train-test split, label encoding, metrics (accuracy, MCC, AUC)
  - TensorFlow / Keras – Building and training the CNN-RNN model
  - PyTorch + ESM library – For generating protein embeddings
  - SMOTE (from imbalanced-learn) – To handle class imbalance
  - Matplotlib, Seaborn – For plotting and visualizing model performance

## **TOXIC COMMENT CLASSIFICATION USING DEEP LEARNING**

- This project enhances online safety by developing a Deep Learning model that detects and removes toxic comments on social media. It combines CNNs to identify harmful language patterns and LSTMs to capture sequential context. Trained on a labeled dataset, the hybrid model achieves high precision and recall, outperforming conventional approaches in toxicity detection.
- Tools used: TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, CNN, LSTM, Hybrid CNN-LSTM.

### **Skills**

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**Programming Languages:** Java, Python, C, HTML, CSS

**Technologies:** SQL

**Tools:** Microsoft Office, VS Code, Jupyter Notebook, Google Colab

**AIML Knowledge:** Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing

### **Certifications and Achievements**

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NPTEL Elite + Silver in Soft Skills (2024)

NPTEL Elite in Privacy and Security in Online Social Media (2024)

Database Programming with SQL from Oracle Academy (2023)

### **Paper Published**

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**4th International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2024)**

- Neural Architecture Search-Driven Optimization of Deep Learning Models for Drug Response Prediction

### **Others**

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ACM Student Member BVRIT

### **Personal Details**

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Date of Birth: 20-11-2004

Gender: Female

Languages Known: English, Telugu, Hindi

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