

Ketha Jagadhish

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SKILLS

- **Languages:** C++, C, Java, Python, HTML, CSS, JavaScript
- **Technologies:** NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, TensorFlow, Keras, Flask, CNN, Docker, OpenCV
- **Developer Tools:** Git, GitHub, Google Colab, VS Code, Linux, Ubuntu
- **Soft Skills:** Problem-Solving Skills, Team Player, Enthusiastic Learner, Analytical Skills

INTERNSHIP

- **Academor(online)** Sep 2024 – Oct 2024
Machine Learning Intern
 - Python and advanced machine learning techniques, completing 50+ hours of focused training on practical ML concepts and real-world applications.
 - Developed a customer segmentation model using K-means clustering for identifying high-value customer groups.
 - **Model Evaluation and Analysis:** Evaluated model performance using the elbow method, achieving a silhouette score of 0.75 and a Davies-Bouldin index of 0.37 for optimal cluster quality.
 - **Tech stacks used:** pandas, numpy, matplotlib, seaborn, scikit-learn

PROJECTS

- **Autonomous Fruit Sorting and Packaging System – (Project Link)** Feb 2025 – Apr 2025
 - Developed an end-to-end fruit classification system using a CNN-based InceptionV3 architecture with transfer learning, achieving 90.14% validation accuracy.
 - Integrated the trained model into a Flask-based web application for real-time fruit type prediction from uploaded images also integrated live detection.
 - Designed an interactive frontend using HTML, CSS, and JavaScript to support image uploads and display results.
 - Deployed the application Git LFS for handling and versioning large .h5 model files efficiently.
 - **Tech:** Python, Flask, HTML, CSS, JavaScript, TensorFlow, Keras, OpenCV, InceptionV3, Git, GitHub, Git LFS
- **Movie Recommendation System – (Project Link)** Feb 2025 – Apr 2025
 - Developed a movie recommendation system combining content-based and collaborative filtering using the TMDB 5000 dataset.
 - Suggests similar movies based on user input by analyzing genres, cast, crew, and user preferences.
 - Deployed as a Flask web app, containerized with Docker, and automated with a CI/CD pipeline using GitHub Actions.
 - **Tech:** Python, Pandas, Scikit-learn, Flask, HTML, CSS, JavaScript, Docker, GitHub Actions
- **Part-of-Speech Tagging and Spellchecking in Telugu – (Project Link)** Sep 2024 - Nov 2024
 - Designed, trained, and fine-tuned an NLP model integrating BiLSTM for POS tagging and probabilistic spellchecking, achieving 75.8% accuracy, outperforming the standalone BiLSTM model 71.7%.
 - Optimized the model, achieving an F1-score of 0.74, outperforming the CRF model's F1-score of 0.67, significantly enhancing precision, recall, and overall sequence labeling accuracy.
 - The developed approach can be used in chatbots, search engines, and translation systems to improve text processing.
 - **Tech:** stanza, Python Libraries, BiLSTM, CRF.

CERTIFICATES

- Cloud Computing ([NPTEL](#)) Nov 2024
- Complete Interview Preparation - Self-Paced ([GeeksforGeeks](#)) Jul 2024
- Dynamic Programming and Greedy Algorithms ([Coursera](#)) May 2024
- Generative AI with Large Language Models ([Coursera](#)) Apr 2024

ACHIEVEMENTS

- **Research Paper Publication** Feb 2025
 - Published a Natural language processing research paper in Grenze International Journal of Engineering and Technology (GIJET).
 - Research paper on "Image Classification using CNN" accepted in the Hinweis International Conference on Image Processing, Conference Proceedings, indexed by Scopus and Crossref.

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering **CGPA: 8.65** Aug 2022 - Present
- **Sasi Junior College** West Godavari, Andhra Pradesh
Intermediate **Percentage: 98.1%** Jun 2020 - Apr 2022
- **Sasi English Medium High School** West Godavari, Andhra Pradesh
Matriculation **Percentage: 97%** Jun 2019 – Apr 2020