Ketha Jagadhish

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GitHub

SKILLS

Programming Languages: C, C++, Java, Python, HTML, CSS
Technologies/Tools: NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, Keras, TensorFlow, PyTorch, Docker
Developer Tools: Git, Github, Google colab, Jupyter notebook
Certifications: Cloud Computing(Nptel),Complete Interview Preparation(GeeksforGeeks), Generative AI(Coursera)

EXPERIENCE

Machine Learning Engineer *Sept 2024 – Oct 2024*
***Acadomer** (Online)*

- **Skill Development**: Python and advanced machine learning techniques, completing 50+ hours of focused training on practical ML concepts and real-world applications.
- **Customer Segmentation(Project)**: Built a machine learning model to segment customers into distinct groups based on the characteristics such as Age, Annual Income, and Spending Score.(Project Link)
- **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.

PROJECTS

Part-of-Speech Tagging and Spellchecking in Telugu *(Project Link)*
Machine Learning

- Achieved 75.8% POS tagging accuracy by integrating BiLSTM for POS tagging with probabilistic spellchecking, surpassing the standalone BiLSTM model's 71.7%.
- Reduced spelling errors using probabilistic spellchecking, improving POS tagging performance.
- Enhanced F1-score to 0.74, outperforming the CRF model's F1-score of 0.67, demonstrating improved precision and recall.

Movie Recommendation System *(Project Link)*
Machine Learning

- Implemented Gaussian Naive Bayes, Logistic Regression, Decision Tree, and Random Forest models, achieving up to 86% accuracy and an F1 score of 0.85.
- Visualized data insights through correlation heatmaps, rating distribution graphs, and model comparisons, highlighting Random Forest's superior performance.
- Utilized Python, Pandas, Scikit-learn, Matplotlib, and Seaborn for analysis, modeling, and visualization.

PUBLICATIONS

Natural Language Processing Research

- "**Integrating Probabilities Models and Neural Networks for Enhanced Part-of-Speech Tagging and Spellchecking in Telugu**" Accepted and published in the *Hinweis International Conference on Recent Trends in Engineering and Technology (RTET)*, Conference Proceedings, indexed by Scopus and Crossref.

EDUCATION

Lovely Professional University *Sept 2022 – Present*
Bachelor of Technology in Computer Science and Engineering *Punjab, India*

- CGPA: 8.65/10.0

Sasi Junior College *June 2020 – April 2022*
Intermediate (MPC) *Andhra Pradesh, India*

- Percentage: 98%