

Thiluck Vardhan Vemula

LinkedIn: thiluck-varadhan-vemula
GitHub: github.com/Thiluckvardhan

Email: thiluckrlvt@gmail.com
Mobile: +91 8885619995

SKILLS

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

PROJECTS

Movie Recommendation System | Machine Learning

Sep 2024 - Nov 2024

- Engineered a ML-based movie recommendation system using Gaussian Naive Bayes, Logistic Regression, Decision Tree, and Random Forest.
- Achieved 84% accuracy and an F1 score of 0.83, ensuring effective recommendation quality.
- Conducted feature analysis, built correlation heatmaps, and visualized rating distributions for data-driven insights.
- Designed the system to be scalable and adaptable for real-world movie streaming platforms handling large-scale datasets.
- Tech Stack: Python, Pandas, Scikit-learn, Matplotlib, Seaborn.

Glioma Prediction | Natural Language Processing

Feb 2024 - Mar 2024

- Developed and tested machine learning models such as Decision Trees, Gradient Boosting, and Random Forest to accurately predict glioma progression and assess patient risk levels.
- Enhanced model performance through comprehensive data cleaning, strategic hyperparameter tuning, and effective feature selection, resulting in improved precision, stability, and overall reliability.
- Achieved the best results with a Voting Classifier, explaining 78.43% of the variation in glioma progression.
- Utilized MRI scans, genetic data, and patient records to support clinical decision-making and treatment planning.
- Tech Stack: Python, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn.

CERTIFICATES

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| • Cloud Computing (NPTEL) | Nov 2024 |
| • Algorithms on Strings (Coursera) | Mar 2024 |
| • Getting Started with AI and Machine Learning (LinkedIn Learning) | Feb 2024 |
| • SQL for Data Science (Great Learning) | Mar 2023 |

ACHIEVEMENT

- Solved 250+ problems on LeetCode.
- Runner-up in Cipher Schools' Weekly Coding Contests for 4 consecutive weeks, demonstrating consistent problem-solving skills and competitive programming proficiency.

EDUCATION

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| • Lovely Professional University
Bachelor of Technology - Computer Science and Engineering CGPA: 7.54 | Punjab, India
Sep 2022 - Present |
| • Trinity Junior College
Intermediate Percentage: 92.9% | Karimnagar, Telangana
Jun 2020 - May 2022 |
| • Vasant Valley High School
Matriculation Percentage: 100% | Karimnagar, Telangana
Jun 2019 – May 2020 |