M K Guruprasad

+91 8300037389 | mkguruprasad011@gmail.com | linkedin.com/in/guruprasad-m-k | github.com/Guruprasad-11

Summary

A prospective computer science engineer specializing in Artificial Intelligence, proficient in C, Java, Python, and web development, with expertise in AI and machine learning. Possessing strong interpersonal and problem-solving skills, with the ability to collaborate effectively in teams and handle responsibilities independently. Seeking a position to contribute to and grow with an organization, while enhancing experience in AI.

Technical Skills

Programming Languages: Python, Java, C, R, SQL, MATLAB

Libraries & Tools: TensorFlow, PyTorch, Keras, NumPy, Pandas, Scikit-learn, PostmanAPI, Git

Web Development: HTML, CSS, JavaScript, Django

Projects

Liver Disease Prediction
Machine Learning Project *Python, Pandas, Scikit-learn*

- Implemented ML models (Naive Bayes, SVM, Logistic Regression, ANN, kNN, J48, Random Forest, Bagging, AdaBoost, Voting Classifier) for liver disease prediction.
- Achieved 80.1% accuracy, 80.4% precision, 80.1% F-measure, and 88.4% AUC with Voting Classifier using SMOTE and 10-fold cross-validation, surpassing related studies on the same dataset and features.

Brain Tumor Segmentation
Deep Learning Project *Python, TensorFlow, Keras, OpenCV*

- Developed a U-Net-based model for brain tumor segmentation in MRI images, optimized with a Hausdorff loss function for precise boundary detection.
- Compared predicted masks with ground truth and achieved a high IoU (Intersection over Union) score for model accuracy.

Credit Card Fraud Detection
Deep Learning Project *Python, Pandas, Scikit-learn, Keras*

- Developed a hybrid ensemble model combining LSTM and ANN for fraud detection.
- Implemented comparative analysis with traditional models, such as SVM, Logistic Regression, and Gaussian Naive Bayes.
- Achieved improved accuracy and robustness through hyperparameter tuning and data resampling on original and resampled datasets, with model performance evaluated using precision, recall, F1-score, and AUC.

Education

Amrita Vishwa Vidyapeetham Amaravati, Andhra Pradesh
B.Tech in Computer Science Engineering, Specialization in Artificial Intelligence *Oct 2022 – Aug 2026*
- Current CGPA: 9.8/10

Competitions & Volunteer

IEEE Member 2024
Participant in IEEE Xtreme 24-Hour Hackathon
- Participated in the global IEEE Xtreme 24-hour coding competition, collaborating and solving complex programming challenges under time constraints.

Web Development Workshop Volunteer
Volunteer Experience
- Assisted over 50 participants by troubleshooting coding issues and providing guidance to new learners, enhancing their understanding of HTML, CSS, and JavaScript during a 1-day workshop.

CERTIFICATIONS

- Deeplearning.ai and Stanford University on Coursera: Supervised Machine Learning, Advanced Learning Algorithm
- Nvidia Deep Learning Institute: Getting Started with Deep Learning
- NPTEL: Data Science for Engineers (Elite + Silver)
- Indian Institute of Remote Sensing: Remote Sensing and Digital Image Analysis