Pyatlo Thanusree

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github.com/thanusree-123

PROFILE

Passionate Machine Learning Engineer with experience in AI/ML model development, deep learning, and real-time AI applications. Skilled in Python, TensorFlow, PyTorch, and deep learning frameworks with expertise in AI-driven security and medical imaging applications.

EDUCATION

B.Tech in Computer Science and Engineering (Specialization: Cybersecurity) 2022 – 2026 | Chennai, India
Amrita Vishwa Vidyapeetham
CGPA: 8.6.

B.Tech in Artificial Intelligence and Machine Learning(Minor) 2022 – 2026 | Chennai, india
Amrita Vishwa Vidyapeetham
CGPA : 8.6

Higher Secondary Education (Class 12) 2020 – 2022 | Vijayawada, India
Sri Bhavishya Junior College
Percentage: 97%.

SKILLS

Programming Languages
Python, C++, C,Java,Haskell

Web Development
HTML, CSS, Java Script,ReactJS

Database
MySQL,sqlite

Tools
Burp Suite, Wireshark, Nmap, Metasploit,Sqlmap,EtterCap Google Colab, Jupyter Notebook

Soft Skills
Teamwork & Collaboration, and Emotional Intelligence

PROJECTS

Machine Learning-Based Prediction of In-Hospital Mortality in ICU Patients with Heart Failure Mar 2024
SVM,XGBoost,Logistic Regression,LASSO Regression,Random Forest,KNN
- Developed a machine learning model using XGBoost, SVM, Logistic Regression, and Random Forest to predict in hospital mortality in ICU patients with heart failure using the MIMIC-III dataset.
- Applied data preprocessing techniques, including feature selection, class balancing with SMOTE, and principal component analysis to improve model performance.
- Achieved 97% accuracy with SVM and 91% accuracy with XGBoost, providing a robust predictive model for ICU mortality risk assessment.

Ransomware Detection Nov 2024
RNN, DNN,GRU,CNN, XGBoost, Autoencoder, LightGBM,python,Flask,ReactJS
- Achieved 99.95% accuracy using DNN and 99.93% accuracy with GRU for ransomware detection using system behavior analysis.
- Developed a Flask backend and React frontend for real-time classification of ransomware from JSON logs.
- Utilized deep learning models (RNN, GRU, DNN, CNN, Autoencoder, TabNet) with CIC MalMem 2022 dataset and Stratified K-Fold Cross-Validation for robustness and scalability.

Skin Cancer Classification and Detection Nov 2024
EfficientNet, ResNet18, ResNet34, SqueezeNet, MobileNet,python,Flask,ReactJS
- Achieved 94% accuracy using EfficientNet for classifying skin lesions into seven categories with the HAM10000 dataset.
- Developed a web application with a React frontend and Flask backend for real-time skin cancer classification from user-uploaded images.
- Applied deep learning techniques including EfficientNet, ResNet18, ResNet34, SqueezeNet, and MobileNet, optimizing model performance through data augmentation and stratified validation.

Bank Website (Frontend) Oct 2023

HTML,CSS

- Designed a bank website frontend using HTML, CSS, featuring a clean and professional layout.
- Ensured responsive and user-friendly design with intuitive navigation for better accessibility.

E-commerce Website Sep 2023

Django, SQLite3, HTML, CSS, JavaScript, Bootstrap, PayPal API, Django Authentication

- Develops a fully functional e-commerce platform with product browsing, cart management, checkout, and secure user authentication.
- Enhances user experience with order history, payment integration, search functionality, and responsive UI for seamless shopping.

CERTIFICATES

- Udemy sql bootcamp certificate
- Acmegrade internship certificate

VOLUNTEER EXPERIENCE

College tech fest | Tantrotsav'24

volunteer

Volunteered at **Tantrotsav** for an event riddle realm under **Fact club**