AR KEERTHANA

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Profile

Motivated Computer Science student with expertise in machine learning, data science, and AI. Experienced in delivering AI solutions, including computer vision, chatbot development, and cloud-based ML applications. Skilled in analyzing data, building models, and deploying real-time AI solutions. Quick learner with strong problem-solving abilities and a collaborative mindset, eager to work on impactful real-time projects and drive innovation in tech teams.

Education

Vellore institute of technology, Chennai   Chennai, India
Integrated MTech in Computer Science Engineering with specialization in Business Analytics. CGPA – 8.33   2022 -2027 | Present

D.A.V. Group of Schools   Chennai, India
Percentage – 88.8%   2020 – 2022

Skills

Technical: Python, C, MySQL, TensorFlow, PyTorch, Pandas, Scikit-learn, NumPy, Seaborn. *Object Detection using YOLO, Natural Language Processing (NLP), Chatbot Development , Docker*
Language: English (Fluent), Tamil (Native), Hindi (Basics), French (Basics)

Experience

GUVI Geek Network Private Limited – IITM Research Park   Chennai, India

Data Science Specialist Intern.
- *Led end-to-end development of machine learning and deep learning models projects, applying advanced techniques for real-world use cases.*
- *Engineered NLP solutions with LSTM for improved chatbot context, developed YOLO-based object detection models to optimize accuracy, and enhanced chatbot performance through advanced data preprocessing and augmentation techniques.*

College Event CLUB – Chennai, India
Event Manager
spearheaded the sponsorship department for a high-profile Drone Show event, successfully securing sponsorships from over 10 diverse companies and raising more than Rs. 1,00,000 — led communications, budget planning, and follow-up strategy.

Projects

- **End-to-End DevOps Deployment: Breast Cancer Prediction**
  Developed a breast cancer classification model (85% accuracy) and deployed it using Docker and Jenkins in an automated CI/CD pipeline to ensure real-time predictions.
  Skills Used: Machine Learning, Docker, Jenkins, Python

- **Parkinson's Disease Classification with Multimodal Features**
  Built a multimodal deep learning model combining gait, voice, and handwriting data to classify Parkinson's disease with 80% precision on test datasets.
  Skills Used: Deep Learning, Python, Multimodal Analysis

- **Job Market Salary Prediction Using PySpark**
  Applied regression analysis with PySpark to predict salary trends from 1M+ job listings sourced through web scraping from Indeed.
  Skills Used: PySpark, Machine Learning, Big Data, Python, Web Scraping

- **ECG Arrhythmia Prediction and Classification**
  Developed and trained a deep neural network on the MIT-BIH dataset to classify ECG arrhythmias, achieving *90.96% accuracy and 91.05% F1-score across.*
  Skills Used: Deep Learning, MIT-BIH, Python

- **Stock Market Price Prediction and Web Deployment**
  Implemented LSTM-based stock price forecasting and deployed an interactive real-time prediction tool using Flask.
  Skills Used: LSTM, Flask, Python, Web Deployment

- **Vehicle Density Detection Using YOLO**
  Implemented a real-time vehicle detection system to analyze traffic density using the YOLO algorithm and OpenCV.
  Skills Used: YOLOv5, Python, OpenCV

- **Anemia Prediction and Classification Using Deep Learning**
  Designed and trained a deep neural network to classify anemia from blood profiles, reaching 94.09% accuracy on test data.
  Skills Used: Deep Learning, Python, Data Preprocessing

AWARDS

Hackathons:

- *Hack the Horizon | VIT Chennai*
  Winner: Emerged as champions after two rounds of evaluation, standing out among 700 students from 25 different colleges across Tamil Nadu.

- *Myntra Hackerramp '24*
  Finalist: Shortlisted among over 29,000+ teams, with an acceptance rate of less than 4%.

- *Smart India Hackathon (SIH) 2023*
  Participant*: Successfully selected in the second round at the college level.*

Certifications:

- **Machine Learning 101** - GUVI
- **Fundamentals of Gen AI** - GUVI
- **Introduction to AI, Pair Programming with AI, Prompt Engineering** - LinkedIn Learning
- **SQL - Basic** - LinkedIn Learning
- **Introduction to Cybersecurity** & **Packet Tracer** - Cisco