SRINIVASAN R

Student - AI & Ml Developer

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Profile

Passionate B.Tech AI & Data Science student with a knack for innovative problem-solving and a creative approach to technology. Proficient in Python and machine learning, with expertise in developing data-driven solutions that merge cutting-edge technology with human ingenuity. Enthusiastic about collaboration, innovation, and transforming ideas into impactful realities in the dynamic field of AI and Data Science.

Education

Kathir College of Engineering (Autonomous)   Nov 2021 – May 2025

B.Tech Artificial Intelligence & Data Science

- CGPA: 7.8/10
- **Courseworks:** Python, Machine Learning and Deep Learning Algorithms & Frameworks, Artificial Intelligence, Probability and Statistics, Computer Networks, Database Design, Data Science, Operating Systems.

Experience

Deep Learning Engineer Intern , Pricol Ltd —- Coimbatore.   Feb – May 2024

- **Telltale Inspection For EOL Testing Using CNN**

  - **Image Preprocessing and Classification:** Implemented image preprocessing and classification techniques using OpenCV and Keras, achieving high accuracy in detecting telltale signs.
  - **Algorithms for Anomaly Detection:** Developed algorithms to detect brightness anomalies, dominant colors, segment cutoffs, and scratches in instrument cluster images, ensuring comprehensive fault detection.
  - **Convolutional Neural Networks (CNNs):** Trained CNNs to accurately recognize and classify telltale signs, leveraging their power in image recognition tasks.
  - **Data Handling and Visualization:** Utilized `numpy` and `sklearn` for efficient data handling, and `matplotlib.pyplot` for visualizing the training and evaluation process, ensuring robust model performance.
  - **Cohesive Model Integration:** Successfully integrated all components - image preprocessing, anomaly detection algorithms and CNN classification - into a cohesive and high-performing model achieving accuracy of 80-95 % depending on the quality and quantity of the dataset.
- **Language:** Python
- **Frameworks:** TensorFlow, Keras, OpenCV

Association

ADEPT Professional Organization at KCE, Coding Club Co-ordinator   2023 – 2024

- As Club Coordinator, I organize activities, coding sessions, and workshops to foster collaboration and enhance members' technical skills.

Projects

Company Related, ML & DL Projects   2023 – 2024

- **HR AI ChatBot Using Machine Learning**
  - To create an HR chatbot using NLTK, start by gathering a dataset of common HR queries and FAQs.
  - Define intents such as job inquiries or leave policies and classify queries accordingly.
  - Develop predefined responses for each intent. Integrate the chatbot with a user interface, ensuring smooth interactions.
  - Test extensively to refine accuracy and update regularly with new data to maintain relevance.
  - This iterative approach ensures an effective HR chatbot that enhances user experience.
- **Language:** Python
- **Framework** - NLTK, SVM, Sk-learn, Flask.

- **Multiple User Data Collection Using Google Fit**
  - Google Fit's multiple user data collection allows the aggregation of fitness data from various users.
  - This feature helps in tracking health metrics such as steps, heart rate, and activity levels, enabling comprehensive analysis and personalized insights for each user.
  - It supports a holistic approach to health management by integrating data across devices and users.
- **Language:** Python
- **Framework** - Google API, Sk-learn, TensorFlow.

Technical Skills

- Machine Learning (Ml) | Deep Learning (Dl) | Artificial Intelligence (AI)
- Python | Designing | Web Development

Certifications

- Deep Dive in Deep Learning – Scalar

Non-Technical Skills

- Critical Thinker | Leadership | Problem Solving
- Teamwork | Adaptability | Time Management
- Decision Making

Technologies

Languages: Python, JavaScript
Frameworks: TensorFlow, OpenCV, SK-learn, Keras, Pytorch, Streamlit
Database Tools: MySQL, PostgreSQL