Yashwanth Kasanneni

+91 8106271222 | yashwanth292003@gmail.com | Yashwanth Kasanneni (LinkedIn) | yashwanth (Github)

EDUCATION

Vellore Institute of Technology   Vellore, Tamil Nadu
Bachelor of Technology in Computer Science with current CGPA of 8.65   *Sep. 2021 – Present*

Sri Chaitanya Jr Kalasala   Hyderabad, Telangana
Senior Secondary High School (11th-12th) Grade - 96%   *May. 2019 – April 2021*

Mount Litera Zee School   Hyderabad, Telangana
Secondary High School (9th-10th) Grade - 92.3%   *April. 2017 – May 2019*

EXPERIENCE

Salesforce Developer Intern   Sept 2023 – Dec 2023
Enabled Analytics   *on-site*
- Managed user profiles, roles, and permission sets in Salesforce to streamline user access and ensure data security, enhancing the overall user management and data governance process.
- Automated workflows and approval processes using Salesforce Flow and Process Builder, optimizing internal operations and increasing efficiency across various departments.
- Developed custom business logic using Apex and SOQL/SOSL queries, integrated with Lightning Web Components (LWC) and Visualforce pages, delivering efficient and scalable solutions on the Salesforce platform.
- Implemented automation through custom objects, workflows, and unit testing while optimizing application deployment using Salesforce's declarative and programmatic tools, ensuring robust data management and seamless user experiences.

PROJECTS

Gymnius | *Flutter, Dart, Python, Tflite, Node.js, Android Studio*
- Developed a full-stack mobile application using Node.js as backend and Flutter as frontend
- Trained a convolutional neural network using Tensorflow for Identifying the food item using a click of a picture
- Uses Nutrionix API to fetch the calories of the food item detected by the neural network

AI-Driven Email Processing System | *Python, GPT-4, Google Sheets, OpenAI API*
- Developed an AI-powered application to intelligently process and respond to email order requests and customer inquires, improving customer service efficiency
- Automated inventory management by dynamically updating stock levels based on order fulfillment, ensuring real-time accuracy
- Designed a scalable solution capable of handling a large product catalog

PickerUpper | *Raspberry Pi, Linux, Arduino, Python, Computer Vision, Tensorflow, Arduino IDE*
- Developed a robot that picks up trash automatically by detecting using a Raspberry Pi camera module
- Used Arduino Nano and L298N motor driver for moving the robot
- Uses Serial Communication to interface between Arduino and Raspberry Pi, making the bot fully mo

Nimbus | *Docker, Docker Compose, React, MongoDB, Go-cron, FUSE, JSON Web Tokens (JWT)*
- It is an innovative self-hosting platform that simplifies server management by automating crucial tasks and implementing robust security measures.
- Developed a robust container management module to allow users to monitor, manage, and secure containers seamlessly.
- Designed and implemented the Nimbus App Store, offering multiple installation methods for applications, from Docker CLI to user-friendly automated installers, ensuring accessibility for all users.
- Enhanced the user interface, focusing on an intuitive design that makes server management easy for beginners and advanced users alike.
- Identity management with secure access controls, real-time monitoring with customizable alerts, automated SSL certificates, and SmartShield security to prevent bot and DDoS attacks.

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, PHP
Frameworks: React, Node.js, Next.js, XML, Flask, Django
Developer Tools: Docker, Kubernetes, Bash, Git, GitHub, Android Studio, Linux ,VS Code, IntelliJ
Libraries: pandas, NumPy, Matplotlib, YOLOv8, Scikit-Learn, nltk, TensorFlow, cv2(OpenCV)
Databases: SQLite, Firebase, MongoDB, PostgreSQL

Research and Publications

Effective Analysis of Machine and Deep Learning Methods for Diagnosing Mental Health Using Social Media
IEEE Transactions on Computational Social Systems

- Analyzed large-scale tweet datasets from various social media platforms, identifying keywords related to mental health and performing sentiment analysis to detect early signs of mental health conditions.
- Utilized transfer learning models such as BERT, RoBERTa, DistilBERT, and XLNet, alongside machine learning and deep learning techniques, to develop and train predictive algorithms for identifying behavioral patterns indicating mental health risks.

Predictive Air Quality Analysis in Metropolitan Cities Using Hybrid and Nature-Inspired Optimization Algorithm
Submitted to IEEE Acess

- Implemented LSTM-RFg and CNN-RFg models, along with XGBoost, combined with Particle Swarm Optimization (PSO) and Genetic Algorithm (GA) for enhanced predictive accuracy.
- Leveraged these hybrid and nature-inspired optimization techniques to forecast air quality indices across metropolitan cities using real-time environmental data.
- Developed a robust model that enhances the accuracy of pollutant level predictions, facilitating more informed policy-making and public health interventions.

Courses and Certifications

Machine Learning Specialization   Aug 2023
DeepLearning.AI, Stanford University (Coursera)

Google Cloud Digital Leader   July 2024
Google

Extracurricular Activities

Anokha NGO Club Member
- Prepared educational materials for teaching math and science to orphans, ensuring a clear and engaging approach to complex concepts.
- Managed club's social initiatives, organizing activities for special occasions and coordinating resources for impactful outreach programs.