Jishnu S

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SUMMARY

I'm Jishnu S., enthusiastic about tackling challenges through Java programming, full-stack development, AI solutions, and drone technology. I enjoy developing interactive web applications and bringing AI concepts to life in practical scenarios.

EDUCATION

- **K.S.Rangasamy College of Technology, Tiruchengode** — Tamil Nadu, IN
  BE in Artificial Intelligence and Machine Learning; CGPA: 8.5 — *2022 - 2026*

- **Sri Vidya Mandir Senior Secondary School, Shivaji Nagar, Salem** — Tamil Nadu, IN
  HSC; Percentage: 74.2 — *2021 - 2022*

- **Sri Vidya Mandir Senior Secondary School, Shivaji Nagar, Salem** — Tamil Nadu, IN
  SSLC; Percentage: 67.2 — *2019 - 2020*

PROJECT EXPERIENCE

- **Face Liveness Detection website for UIDAI portal** — Sep 2024 - Oct 2024
  - **Data Collection and Preparation** : Gathering a wide range of authentic and spoofed facial data, using methods like data augmentation to make the model more resilient and effective.
  - **Model Building and Training** : Leveraging OpenCV and Mediapipe to extract and analyze facial features, and using Scikit-learn to train a highly accurate machine learning model. This process involved experimenting with different algorithms and carefully adjusting hyperparameters to get the best possible performance.
  - **AWS Deployment** : Launching the model on AWS for scalability and reliability, ensuring smooth integration with the UIDAI portal for seamless functionality.

- **Autonomous Search and Research Drone** — Dec 2024 - Jan 2025
  - **Real-Time Person Detection** : Implemented YOLO-based machine learning model for detecting missing persons in remote areas such as forests, mountains, and disaster zones. Optimized model performance for real-time inference on edge devices.
  - **Autonomous Drone Navigation** : Integrated GPS and onboard processing to enable drones to autonomously navigate search areas and detect individuals using computer vision.
  - **Location Transmission & Reporting** : Developed a system to extract GPS coordinates of detected individuals and transmit real-time location data to rescue teams via wireless communication protocols.
  - **Performance Optimization** : Evaluated model accuracy, detection speed, and transmission efficiency under various environmental conditions to enhance reliability in real-world rescue operations.

CERTIFICATIONS

- **Professional Certifications**:
  - Data Analytics with Python
  - Python for Data Science
  - Getting Started with Git and GitHub

TECHNICAL SKILLS

- **Languages**: Java, Python

- **Scripting Languages**: HTML, CSS, JavaScript

- **Database**: MySQL

- **Tools and Technologies**:
  - **Front-end Tools**: Figma, Bootstrap
  - **Data Analytics**: Power BI, MS Excel, Tableau.
  - **Automation Tools**: UiPath, Git

- **Extra Skills**: AutoCAD, Drone Design and Assembly, UAV operation and Navigation