JAYA BHANU PRAKASH **MURAPAKA**

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Summary

Dynamic AI and Web Developer with a proven track record at Developing AI Automation Tools for Automation. Expert in Python and machine learning, I excel in crafting innovative solutions and collaborating effectively with teams. Passionate about UI/UX design, I deliver impactful web applications that enhance user experience and drive client success across diverse markets.

Skills

- Python
- Machine learning
- Web application design
- PyTorch
- Keras
- OpenCV
- YOLO
- Mediapipe
- HTML5
- CSS3
- JavaScript
- WordPress
- Git
- XAMPP Server
- Data structures & Algorithms
- Data structures
- UI/UX design
- Graphic design tools

Experience

AI and Web Developer **01/2022 to Present**
Developing Ai automation Tools for Automation (**Freelancer)** Bengaluru

- Developed and customized ai automation tools and full stack web applications, enhancing user experience and functionality.
- Integrated APIs to connect web applications with external data sources and services, streamlining data access and interaction.
- Collaborated with cross-functional teams to define project requirements and deliverables, ensuring alignment and clarity throughout project lifecycle.
- Collaborated with other developers on coding projects.
- Managed client relationships in India, UK, and Japan.
- Categories: E-Com, CRM, Reseller, Portfolio, Tasks Manager, Assignment Manager

Artificial Intelligence Intern **12/2022 to 03/2023**
Pantechlearning Chennai

- Conducted data analysis to enhance AI training processes.
- Developed AI models to enhance educational content and learning experiences.
- Collaborated with teams to analyze data and improve algorithm performance.
- Conducted research on emerging AI trends in the education sector.

Education

Master of Science: **Artificial Intelligence & Machine Learning in IT** **07/2025**
Garden City University Bengaluru, Karnataka, India
GPA: 93%

- Publications and Presentations: Published article on Woman Safety System using AI
- Presented Bunty AI an Automation AI tool for PC

Bachelor of Science: **MECS (Mathematics, Electronics & Computer Science)** **11/2022**
Nalanda Degree College Vijayawada, Andhra Pradesh, India
GPA: 70%

Certifications

• Introduction to Generative AI, Google Cloud Skills Boost
• AI For India 2.0, GUVI (An IIT-M & IIM-A Incubated Company)
• Digital Skills: Artificial Intelligence, Accenture
• Python, Pantech E Learning
• Python Basics, University of Michigan (Coursera)
• Introduction to Python Programming, University of Michigan (Coursera)
• Crash Course on Python, Google (Coursera)
• Technical Support Fundamentals, Google (Coursera)
• Robotic Process Automation, GUVI

Projects

- Women Safety System (WSS) - IoT-Enabled Android App with PHP-MySQL Backend, Developing an IoT-enabled emergency alert system using a wearable SOS Band that discreetly triggers alerts via tap patterns or long-press gestures. Implemented real-time GPS tracking and alert broadcasting to nearby users and emergency contacts, reducing critical response times. Designed backend services and app communication logic for secure and efficient emergency data handling., PHP, MySQL, PhpMyAdmin, REST APIs, Postman, XAMPP Server, Android Studio, Java, IoT Prototyping
- Augmented Reality Computer using Raspberry Pi, Developed a head-mounted AR system using Raspberry Pi 4B, Pi Camera, and YOLOv5 for real-time object detection. Captured live video feed and processed frames on-device using Python and OpenCV. Implemented YOLOv5 (tiny) model optimized for edge computing to achieve fast and accurate object recognition. Designed a wearable OLED display to project AR overlays (object names, bounding boxes) into the user's field of vision. Achieved low-latency processing and smooth rendering, creating an immersive HUD-style AR experience., Raspberry Pi 4B, Pi Camera, YOLOv5, Python, OpenCV, OLED display, Edge computing
- Bunty - AI-Powered Voice Assistant, Designed and developed a personal voice assistant named Bunty using Python, capable of performing tasks such as web searches, app automation, YouTube control, weather updates, and system commands. Integrated speech recognition and text-to-speech modules to enable real-time voice interaction. Added modules for automation (e.g., opening applications, typing messages, taking screenshots) using pyautogui and OS-level scripting. Optimized performance for offline usage, making the assistant lightweight and responsive on low-resource systems. Demonstrated in front of academic evaluators and government officials, gaining positive feedback for real-world applicability and integration potential., Python, Speech recognition, Text-to-speech, pyautogui, Automation, Offline optimization

Hobbies and Interests

- Traveling - Visited Tokyo, Kuala Lumpur, Bangkok, Colombo, and Hangzhou; passionate about cultural exploration
- Tech Experimentation - Building smart gadgets and exploring AI/IoT integrations
- Content Creation - Technology-focused YouTube videos and tutorials
- Photography & Video Editing - Capturing experiences and storytelling through visuals
- Reading - Technology blogs, AI trends, and innovation case studies

Publications

- Bunty: An AI-Powered Voice Assistant for Smart Automation, College Magazine, Okinawa Institute of Science and Technology, Japan, 01/01/25
- Dissertation on Women Safety System (WSS), Garden City University, India, 01/01/25

Disclaimer

I hereby declare that all the information provided above is accurate and to the best of my knowledge.