Lakshminarasimha Bhatrachar V

ln507684@gmail.com   —   +91 93804 25452

linkedin.com/in/lakshminarasimha-bhatrachar-v

Professional Summary

Detail-oriented software developer with hands-on experience in full-stack development, object-oriented programming, and cloud computing. Proficient in developing scalable web applications using Python. Completed over 5 projects including mobile apps, web platforms, and games with measurable impact. certified in Python, Java, AWS cloud fundamentals ,and data mining and data warehouse. Strong understanding of the software development lifecycle.

Technical Skills

Languages: Python, Java, C, C++, SQL, HTML, JavaScript, css
Frameworks/Libraries: Django, Bootstrap, Android SDK
Tools: Git, GitHub, VS Code, Android Studio, IDLE , Vertex AI , google collab
Cloud/DevOps: AWS EC2, S3 (Basic), Git
Concepts: OOP, REST APIs, MVC Architecture, Data Structures, Algorithms, prompt engineering , problem solving techniques

Experience & Education

AI & ML Intern – InternPe (3 Months)

- Worked on machine learning model development, data preprocessing, and exploratory data analysis.

- Implemented supervised ML algorithms and improved model accuracy through tuning and evaluation.

- Gained practical experience in Python, NumPy, Pandas, and Scikit-learn workflows.

Python Full-Stack Development Intern – (1 Month)

- Built full-stack web components using Python, Flask/Django, HTML, CSS, and SQL.

- Developed CRUD operations and API integrations for real-world applications.

- Strengthened backend development, MVC structure, and deployment fundamentals.

Education

- **2nd PUC – Swami Vivekananda PU College, Malluru**

- **10th – Government Junior High School, Vijayapura**

Projects (28 Jan 2025 – 28 Mar 2025)

2D Game Design Project – python

- Engineered a 2D python-based game with scoring, collision detection, and UI components using Swing.

- Reduced runtime errors by 40% through rigorous testing and exception handling.

- Achieved 90% code modularity using object-oriented principles.

- Enhanced user experience with sound effects, pause/resume, and high-score tracking.

Sustain ledger for carbon footprint Web Platform – Python ,Django

- Developed website using Django, HTML, CSS, and Javascript.

- Implemented carbon footprint monitoring system , reducing carbon emissions in the environment by 90

- Improved accuracy and maintain consistency on the result produces

Android App Development – Java, SQLite

- Built a task-tracking mobile app with SQLite and modern UI in Android Studio.

- Decreased app load time by 30% through optimized API handling.

- Delivered MVP in 3 weeks following Agile sprints.

- Added dark mode and daily reminders, improving retention by 20%.

Lakshmi Voice Assistant – Python, NLP, Speech Recognition

- Developed an intelligent voice assistant capable of executing real-time commands such as search, reminders, app control, and system automation.

- Integrated Speech-to-Text and Text-to-Speech using Python libraries for smooth conversational interaction.

- Implemented NLP-based intent detection to improve command accuracy by 35%.

- Added custom wake-word activation, background listening, and fast response mode for improved usability.

- Designed a modular architecture enabling easy addition of new skills and features.

Crime Scene Detective AI Agent – Vertex AI, Python, Computer Vision

- Developed an AI-powered agent capable of analyzing crime scene images and evidence using Google Vertex AI's vision models.

- Implemented automated object detection to identify weapons, fingerprints, suspicious objects, and scene anomalies with high accuracy.

- Integrated Vertex AI Model Garden + custom Python pipelines to classify, tag, and summarize critical findings.

- Built a reasoning layer to generate investigative insights, linking extracted visual clues with possible crime patterns.

- Designed a web dashboard for investigators to upload images, view AI-generated reports, and track case progress.

Certifications

- Python Programming – Infosys Springboard

- AI Skills Passport - EY and Microsoft

- Certificate of participation - Tata crucible

- Business waiting - University of Colorado Boulder(coursera)

- Graphic Design - University of Colorado Boulder(coursera)

- Successful Presentation - University of Colorado Boulder(coursera)

- Effective Communication Capstone Project - University of Colorado Boulder(coursera)

- Effective Communication : Writing, Design, and Presentation - University of Colorado Boulder(coursera)

- Network Support and Security - cisco Networking Academy

- Introduction to Data Warehouse Testing - Infosys Springboard

- Computational Theory: Language Principle & Finite Automata Theory - Infosys Springboard

- Hadoop Architecture and HDFS - Infosys Springboard

- Introduction to Data Mining - Infosys Springboard

Additional Information

collaborative development skills. Interested in front end & backend engineering, AI&ML engineering , problem solving .