Balu Areti

Hyderabad

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About Me

Dynamic MCA graduate and innovative technologist recognized for delivering impactful AI-driven solutions. Proven ability to blend advanced technical skills with creative vision to build robust projects end-to-end. Known for intuitive problem-solving, rapid learning, and a passion for applying emerging technologies to real-world challenges.

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Web Development
- Systems Programming
- Software Methodology
- Database Management
- AI Tools and Technology
- Cloud Computing

Experience

Infosys Springboard Internship   **October 2024 – January 2025**
Intern   *Remote, India*

- Completed hands-on training in Software Development and AI Technologies. Worked on real-world projects and built applications using Python, Machine Learning, and Web Development.
- Developed an Object Recognition System using Deep Learning and OpenCV.
- Learned about Agile Methodologies, Version Control, and CI/CD Pipelines.

AWS re/Start Program in Cloud Computing   **December 2023 – March 2024**
Tech Mahindra   *Visakhapatnam, India*

- Completed a 12-week AWS re/Start program, gaining expertise in AWS Cloud services, security, and architecture.
- Achieved a certification score of 864/1000 on the AWS Cloud Practitioner exam.
- Gained practical knowledge of Linux, Python, Networking, Security, and Databases.

META Front-end Developer (Self-Taught)   **Feb 2023 – August 2023**
Meta   *Hyderabad, India*

- Earned the Meta Front-End Developer Certificate from Coursera, mastering HTML, CSS, JavaScript, and React.
- Developed 3+ dynamic websites, improving UX/UI and conversion rates by 40%.
- Improved website speed and performance by 30% through optimizations.

Projects

AI-Powered Fake News Detector | *key skills used: Python, PyTorch, Flask, Docker, NLTK, Git*   **May - 2025**

- Orchestrated an end-to-end MLOps pipeline, from fine-tuning a **BERT** model on **Google Colab (GPU)** to deploying a full-stack web application for real-time analysis.
- Engineered a hybrid credibility engine to mitigate AI model bias, blending NLP-based predictions (**96% accuracy**) with rule-based source reputation for a more reliable assessment.
- Containerized the application using a multi-stage **Dockerfile** and deployed it as a live service on **Hugging Face Spaces**, managing the full CI/CD pipeline from Git.
- Live Demo | GitHub Repository.

Object Recognition System | *key skills used: Python, OpenCV, TensorFlow, Flask*   **Jan - 2025**

- Designed and developed a real-time object recognition system for detecting and classifying objects.
- Implemented custom training models using TensorFlow and OpenCV.
- Created a web-based interface for user interaction and model visualization.
- Improved accuracy by 20% through fine-tuning deep learning algorithms.
- GitHub Repository.

Personal Portfolio Website | *HTML, CSS, JavaScript, Bootstrap, SASS*   **SEP 2023**

- Designed and developed a fully responsive, single-page portfolio application to serve as a professional hub for showcasing 10+ of my key projects and skills.

- Engineered a dynamic user experience by implementing interactive project filtering by category (All/Web/AI-ML) and subtle scroll-reveal animations to enhance user engagement.

- Crafted a clean, pixel-perfect UI with a mobile-first design philosophy, ensuring a seamless and performant navigation experience across all devices.

- Live Portfolio | GitHub Repository.

Technical Skills

Programming Languages: Python, JavaScript, Java, SQL, C
Frameworks & Libraries: PyTorch, TensorFlow, Scikit-learn, Pandas, React, Flask, OpenCV
Developer Tools: Docker, Git, GitHub, AWS, VS Code, IntelliJ IDEA
Knowledge Areas: Machine Learning & AI (Deep Learning, NLP, MLOps), Full-Stack Web Development, Cloud Computing, Data Structures,& Algorithms, System Design, Agile, Google Workspace. & CI/CD
Operating Systems: Linux, Windows

Education

Kalinga Institute of Industrial Technology (KIIT University)   2023- 2025
Master of Computer Applications (MCA)   *Bhubaneswar, Odisha*

Data Structures and Algorithms,Object-Oriented Programming,Database Management Systems,Web Development,Software Engineering,Artificial Intelligence, System Design.

Acharya Nagarjuna University   July. 2017 – May 2021
Bachelor of Hotel Management   *Visakhapatnam, Andhra Pradesh*

Event planning,Front office, operations,Human Resource management,Hotel accounting and finance.
vspace6pt

Online Certificates and Certifications

AWS Certified Cloud Practitioner   March 2024
Certified in fundamental AWS cloud concepts, including services, security, economics, and architecture.

Frontend Developer Professional Certificate   August 2023
Frontend development, showcasing proficiency in HTML5, CSS3, and JavaScript for web development.

Infosys Artificial Intelligence Primer Certification   August 2024

Obtained the Infosys Artificial Intelligence Primer Certification with a score of 67.5%. Demonstrated proficiency in AI fundamentals, including machine learning, data science, natural language processing, and robotic process automation.

Infosys Principles of Generative AI Certification   August 2024

Obtained the Principles of Generative AI Certification with a score of 85%. Demonstrated proficiency in language models like GPT-3 and generative models, and gained practical skills in using GPT models for natural language tasks.