Bakki Mahesh

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Professional Summary

Passionate 2nd-year Electronics and Communication Engineering student at MLRITM with hands-on experience in front-end development, cloud computing, and Python programming. Actively expanding skills in AWS, Docker, and DevOps while building real-world projects and participating in hackathons.

Education

Marri Laxman Reddy Institution of Technology and Management [MLRITM],   September 2023 – May 2027
B.Tech–Electronics and communication Engineering (ECE)

- SGPA: 7.9
- **Coursework:** Embedded Systems, Python Programming, Cloud Computing Fundamentals, PCB Design & Fabrication, IoT Systems & Applications, Computer Networks.

Projects

Custom AI Assistant - "Jarvis"   https://github.com//Jarvis

- Built a smart AI assistant using Python with voice recognition (SpeechRecognition, **PyAudio**), text-to-speech (**pyttsx3**), and **ChatGPT API** for smart responses. Integrated face recognition (OpenCV, face_recognition) for secure access, and added **hotword** detection. Developed a simple web interface using Flask and **HTML/CSS**. Enabled basic home automation with **MQTT** and **GPIO** for **IoT** device control. Used Git for version control and deployed in a **Linux** environment.

3-Tier Architecture on AWS   https://github.com//3-Tier

- Designed and deployed a scalable **3-tier** web application architecture on AWS using **EC2** (web tier), **Load Balancer**, and **RDS** (database tier). Implemented **IAM** roles for secure access control and used **S3** for static content storage. Ensured high availability and fault tolerance by configuring **Auto Scaling** and monitoring with **CloudWatch**.

Personal Portfolio Website   https://My-profile-website/

- I built my personal portfolio website using **HTML** to structure the content, **CSS** for designing a clean and responsive layout, and JavaScript to add interactivity such as the toggle side menu and smooth scroll effects. I used media queries in CSS to ensure mobile responsiveness across various screen sizes. **Visual Studio Code** was my primary code editor, offering a productive development environment. For version control and collaboration, I used **Git** and **GitHub**, and hosted the project using **GitHub Pages** to make it accessible online.

Achievements & Certifications

1st Prize – Cloud Quest Event (MLRITM) : Won first place and a cash prize of 3000 for deploying a real-time 3-Tier Web Application on AWS, showcasing practical knowledge in EC2, Load Balancer, RDS, and Auto Scaling.

AWS Academy Cloud Foundations – Certification : Successfully completed the AWS Cloud Practitioner course from AWS Academy, covering cloud computing fundamentals, core AWS services, and global infrastructure.

Cloud Computing Certification – NPTEL : Completed a comprehensive course on cloud models, service types (IaaS, PaaS, SaaS), virtualization, and cloud deployment strategies.

Technical Skills

Languages: Python, C, JavaScript, HTML, CSS
Cloud Computing : Hands-on experience with EC2, S3, RDS, IAM, Load Balancer, Auto Scaling.
Developer tools : Git, Github, Docker, GitHub Actions, VS code,