Monika Battula

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Education

Gayatri Vidya Parishad College of Engineering, Visakhapatnam   **Sep 2022 – Mar 2025**
Bachelor of Engineering, Information Technology (And Honors in Information Technology)   **GPA: 9.01/10.0**
Coursework : Data Structures, Computer Networks, Machine Learning, Deep Learning, Operating Systems, NLP, Reinforcement Learning, DevOps and Tools

A.A.N.M &V.V.R.S.R Polytechnic, India   **Jun 2019-May 2022**
Computer Science   **GPA:9.67/10.0**

Technical Skills

Languages/Tools/Cloud: Java, Python, SQL, C++, C, Network Automation, Active Directory, AWS ,Azure, Git, GitHub
Protocols: Networking (OSPF, BGP, EIGRP, PBR, MPLS, Multicast, Switching and Internet Protocol Suite (TCP/IP),HTTP),LAN Technologies (Ethernet, Fast Ethernet, VTP, STP, VLAN), L3 & L4
Technologies: Wireless Technologies, Network Security(SSL/TLS, Network and Web Application Firewalls, Intrusion Detection and Prevention services, Linux, Cybersecurity, Machine Learning (NLP),Deep Learning
Soft Skills: Teamwork, Communication, Problem Solving, Adaptability, Time Management

Work Experience

InternsUp Innovations   **Bengaluru, India**
Business Development Associate(BDA)   **Dec 2024 – Present**
- Conducted market research to identify new business opportunities, target markets, and potential clients, driving a 15% increase in leads. Developed and executed sales and marketing strategies to support top-line growth, resulting in a 10% revenue increase.
- Managed client relationships and strategic partnerships, ensuring satisfaction and long-term collaboration. Collaborated with cross-functional teams to oversee strategic initiatives and meet quarterly goals.

NIT Calicut – (**link**)   **Kozhikode, India**
Machine Learning / Drone Intern   **May 2024 – July 2024**
- Designed advanced algorithms for pest management in palm trees, enhancing crop protection by 30% and minimizing pesticide use by 25%, resulting in a more sustainable farming approach and improved yield quality.
- Implemented real-time object detection, precision cutting mechanisms, and environmentally friendly spraying techniques resulting in a 30% increase in productivity and sustainability.
- TechStack: Raspberry Pi, Intel RealSense, Gazebo (RViz), Simulink, Faster-R-CNN, YOLO, DBSCAN ,GMM

Goldman Sacs   **Bangalore, India**
Software Engineer Virtual Experience   **May 2023 – July 2023**
- Conducted IT security assessments and proposed upgrades to password protocols, reducing vulnerabilities by 60%.
- Developed comprehensive IT security assessments leading to the identification of three critical areas for improvement in password management; recommendations directly resulted in a measurable reduction of account comprise incidents.

Academic Projects

Smart DDoS Defender(Python | React | Node js | Flask | AWS Shield | Cloudflare)   **Oct 2024- Jan 2025**
- Developed a cloud-based system for real-time detection, mitigation and recovery from DDoS attacks to ensure high availability and optimal performance for web applications. Technologies: AWS(Cloud infrastructure), Python with TensorFlow(Machine Learning), React(Frontend Dashboard), Node.js, Python(Flask for Backend), AWS Shield, Cloudflare, AWS WAF(Mitigation Tools), AWS Lambda(Automated Recovery).

DNS Packet Capture and Fields Parsing (Byte Level Malicious Detection)   **May 2024- Aug2024**
- Engineered a sophisticated packet sniffer using raw sockets and pcap API to intercept Ethernet frames and analyze IP packets; deployed advanced BPF filters, enhancing threat detection capabilities at the link layer, impacting 200+ network devices. Technologies: C, raw socket programming, Berkeley Packet Filter (BPF).

Software For Video Dubbing(Python | Flask | Whisper | IndicTrans2| gTTs) – (Code)   **Dec 2023- Mar 2024**
- A web application for **dubbing videos** from English to various **Indian regional languages**. Enabled users to upload videos in **.mp4 format** or provide **YouTube links**.
- Implemented a **5-step approach** to dub videos, **automatically detecting** the number of speakers and their genders to generate appropriate voices.

Book-My-Show (React.js | TailwindCSS | TMDB API | Axios | React Slick)- (Code)   **Dec 2023- Mar 2024**
- Developed an interactive movie discovery platform with real time data fetching and responsive design.
- Integrated TMDB API to fetch detailed movie data. A interface using React Slick for carousel displays and Headless UI.

Awards and Achievements

- Won the second position in Table-Tennis district level sports competition.   **Jan 2024**
- Winner in SIH Hackathon and attended to 6 Hackathons.   **Dec 2023**
- Earned certifications in CCNA, JNCIA-Junos, Fortinet(Network Security), Palo Alto Cybersecurity and Google Project Management. Selected as Mentor for Cisco Poland Mentoring Program for FY25.

Publications

- Published an International Conference Paper at MANIT, Bhopal regarding the network security and securing the passwords and personal information.   **Aug 2024**
- Successfully Published 1 Research Paper on Detecting the particular name of disease in Apple fruit in IEEE.