NANDIGAM AKSHAY

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Summary _

Results-driven Software Engineer with expertise in full-stack development, AI/ML, cloud computing, and scalable system design. Adept at developing robust, high-performance applications and optimizing system performance in Agile environments. Passionate about problem-solving, automation, and innovation in enterprise software solutions.

- Languages & Frameworks: Python | C | C# | SQL | ASP.NET Core | JavaScript | React | Django
- AI & Cloud: AI/ML | TensorFlow | Deep Learning | Google Cloud (Vertex AI) | Azure | REST APIs | Docker
- Databases & Web: MySQL | DBMS | HTML | CSS
- Core Programming Skills: Object-Oriented Programming (OOP) | Data Structures & Algorithms(DSA) | Problem Solving
- Tools: Git | Github | VS Code | Postman | Linux | Shell Scripting

Experience

Hackathon

Nasa Space Apps Challenge

Hyderabad 06/2023 - 06/2023

- Led a 4-member team to build a satellite data visualization platform (React, Python) for analyzing NASA Earth data, improving data accessibility for scientists by 40%.
- Trained ML models (TensorFlow) to predict climate patterns with 20% higher accuracy vs. baseline methods.
- Integrated real-time data streaming using WebSocket and Plotly, enabling dynamic updates of satellite imagery and reducing latency by
- Competed against 30+ teams and secured Top 5 ranking for technical innovation and scalability

Education _

Bachelor of Technology

VNR Vignana Jyothi Institute

Hyderabad 09/2020 - 09/2024

Major in Electrical and Electronics Engineering

Projects _

AI Disaster Management and Response System (Enterprise-level application development)

- Built an enterprise-level MVP application for real-time disaster predictions, emergency alerts, and community safety, significant enhancing preparedness by 70%.
- Built interactive features like posts, reels, stories, group chats, and community tools using React, ASP.NET Core, and Django, creating a user-centric platform for communication and collaboration.
- Integrated AI/ML and Deep Learning models to analyze climate data and automate alerts for 2k+ simulated users.
- Developed a platform for community formation, enabling users to form groups, share updates, and discuss real-time disaster situation in their areas.

Voice Assistant (AI-Powered Application)

- Built a desktop voice assistant using Python, SpeechRecognition, and OpenAI GPT API.
- Integrated Google Calendar API and Weather API, improving user productivity by 60%.

Bode Plot Generator (Web-based tool for system stability analysis)

- Developed a responsive web tool using Python and JavaScript to generate Bode plot of a transfer functions, providing results like gain margin, phase margin, and crossover frequencies.
- Designed to assist junior students in understanding system stability concepts interactively.

Anti-Sleep Device for Drivers (IoT-Based Safety System)

Designed an IoT-based system using Arduino, relay modules, and sensors to detect drowsiness and trigger alarms through sound and vibration, enhancing driver safety in real time.

Mentorship _

- AI/ML Workshop: Served as a mentor in an AI/ML workshop aimed at helping junior students understand fundamental concepts and applications of artificial intelligence and machine learning. (01/2024 - 02/2024)
- Tutor: Programming | Data Structure and Algorithms | career advice | coding interview prep

Certifications & Achievements

- Google Code Jam Ranked in Top 2,500 Rank globally (04/2023).
- NASA Space Apps Challenge Ranked Top 5 for innovative satellite data visualization project (06/2023).
- Google Cloud Skill Badge Mastered prompt design and AI/ML deployment within Google Cloud Vertex AI (11/2024).