

VENKATA BHUMIKA GUTHI

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EDUCATION

Masters in Computer Science | CGPA : 3.636

Northern Illinois University

Madanapalle Institute of Technology & Science

Bachelor of Technology in Electronics and Communication Engineering

DeKalb, Illinois, USA

December 2025

Madanapalle, India

May 2023

SKILLS

Programming Languages & Frameworks: Java, JavaScript, Python, C, C++, SQL, D3.js, React.js

AI & Machine Learning: Generative AI, GPT-4, Custom GPTs, Prompt Engineering

Data Visualization & Web Technologies: Tableau, Observable Plot, SVG, HTML, CSS, JavaScript

Android Development: Java, Android Studio, SQLite, REST APIs

Cloud Technologies: Amazon Web Services

Soft Skills: Agile methodologies, Critical Thinking, Team Collaboration, Data-driven Decision Making, Problem Solving

EXPERIENCE

AI Integration Intern, VillageCore

January 2025 - present

- Developed and integrated AI-powered chatbots, automating 80% of user interactions to enhance engagement and streamline communication workflows on digital platforms. Collaborated with cross-functional teams to define chatbot logic, optimize performance, and improve user satisfaction through data-driven enhancements.
- Leveraged AI tools to analyze trends and automate content distribution, improving content reach by 30%. Contributed to the development and optimization of the VillageCore website and app, enhancing usability, visual appeal, and overall user experience, leading to a 20% increase in user retention.
- Orchestrated the development of a user-friendly website interface, incorporating feedback from 500+ user surveys; changes made led to a 20% increase in positive customer feedback and a measurable rise in repeat visits.

Graduate Engineer Trainee, LTIMindtree

February 2023 – May 2023

- Completed an intensive 12-week training program focused on cloud computing, data analytics, and AWS services, gaining hands-on experience in deploying and managing cloud infrastructure, SQL databases, and scalable computing solutions. Achieved expertise in cloud storage, networking, and security best practices, improving system efficiency by 20% in simulated environments.
- Designed and optimized data pipelines using AWS services and SQL, processing 100,000+ data records in hands-on projects to improve data retrieval and analytics efficiency. Engaged in mentorship-driven learning, strengthening problem-solving skills and proficiency in cloud-based architectures.

Student, Riktam Technologies

November 2022

- Implemented a fully functional web application using HTML, CSS, and PHP within 48 hours for a hackathon, implementing interactive features that improved user engagement by 30% compared to baseline prototypes.
- Independently designed and delivered a complete solution, writing 1,500+ lines of code, optimizing performance, and earning recognition for technical excellence in a competition with 100+ participants.

ACADEMIC PROJECTS

Data Visualization Project – Academy Awards (Oscars) Analysis

Jan 2025 – present

- Innovating an interactive, web-based visualization using JavaScript and SVG to analyze trends in Oscar winners.
- Implementing custom visualizations to explore category shifts and top-winning films over time.

Android Projects

Aug 2024 – Dec 2024

- Contacts App:** Proposed a contact management application using Java, SQLite, and Android Studio, implementing search and autocomplete functionality, reducing search time by 30% and improving user efficiency.
- Indian Cricket Team App:** Built an interactive grid-based player profile interface using Java and Android Studio, optimizing data visualization for 50+ player records to enhance user engagement and accessibility.
- News Stream App:** Designed and implemented a real-time news aggregation app, integrating live news APIs using Retrofit and JSON, achieving a 25% improvement in API response time and ensuring seamless content updates.

Fog Removal and Vehicle Detection for Safe Navigation using Image Processing.

Aug 2022 – Dec 2022

- Produced haze image quality enhancement models, improving image clarity by 40% using the Dark Channel Prior technique for real-time fog removal in navigation systems.
- Designed and trained an object detection system using YOLO V4, achieving 90% accuracy in vehicle detection, enhancing road safety and visibility in low-visibility conditions.

PUBLICATIONS

- "Designing of Cross Talk Noise Avoidance in VLSI Circuits using Advanced Test Adaptive Shielding Method in Xilinx tool", published in International Journal of Electrical, Electronics and Data Communication (IJEEDC), Volume-11, Issue-5.

CERTIFICATIONS

- Canva Essential Training – LinkedIn Learning (Feb 2025)
- Advanced Prompt Engineering Techniques – LinkedIn Learning (Jan 2025)
- Succeeding in Web Development: Full Stack & Front End | LinkedIn Learning
- SQL & Relational Databases 101 | IBM, August 2023