

Nirupamarayudu Chitturi

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SUMMARY

Master's student in Computer Science with experience in data engineering, machine learning model evaluation, and full-stack application development. Proficient in Python, Pandas, NumPy, RESTful APIs, and modern web frameworks, with a record of optimizing performance and deploying scalable solutions in Agile environments. Seeking an AI/ML, Data Science, or Full-Stack internship to solve data-driven software engineering challenges.

->Bachelor of Technology in Computer Science at VIT Vellore (2021–2025)

->Master's in Computer Science at Georgia State University (2025–Present)

Personal Portfolio: <https://chnirupam.github.io/My-Portfolio/>

TECHNICAL SKILLS

- **Web Development:** React, Angular, JavaScript, HTML5, CSS3, Bootstrap, Responsive Design
- **Backend & APIs:** Java, Python, REST APIs, Microservices
- **Cloud & DevOps:** AWS Certified Cloud Practitioner, Git/GitHub, Cloud Resource Management
- **Software Engineering:** Agile Methods, System design, Data Structures, Object-Oriented Programming
- **Data & ML:** SQL, Pandas, NumPy, Data analysis, Machine Learning Model Evaluation

EXPERIENCE

Ethnus

Web Developer Intern – Ethnus

Aug 2023 - Nov 2023

- Architected and deployed a full-stack Learning Management System using React and RESTful APIs, improving user engagement through intuitive UI design.
- Implemented secure authentication features and optimized frontend performance for cross-browser compatibility using responsive design.

VIT

Software Engineering Research Assistant – AI & Machine Learning, VIT

Jan 2023 - Dec 2023

- Collaborated under the guidance of Dr. Dilip Kumar to engineer robust data pipelines using SQL and Python, optimizing data flow for AI-driven applications.
- Applied object-oriented programming principles in Python and leveraged pandas and NumPy to build modular, reusable code for large-scale data analysis and visualization.
- Conducted rigorous testing and evaluation of machine learning models to ensure accuracy and reliability, applying model evaluation techniques to benchmark performance.

PROJECTS

IoT Driven Smart Home Automation System

- Designed a secure, cloud-integrated system for real-time monitoring and automation of household devices

Cloud Resource Management Using CloudSim

- Simulated distributed cloud environments to optimize virtual machine scheduling and resource utilization.

AIoT-Based Water Quality Monitoring and Prediction System

- Developed a sensor-driven IoT system for real-time water quality monitoring, integrating ESP8266 and cloud platforms.
- Applied machine learning models to predict water quality parameters and provide automated alerts for unsafe conditions.

Property Pulse – Real Estate Data Analytics App

- Built a web application to analyze and visualize real estate market trends using Python and SQL.
- Implemented predictive models to estimate property prices and provide insights for buyers and investors.