

# CHAKRADHAR VANARASI

International Institute of Information Technology, Bangalore

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## Education

**International Institute of Information Technology Bangalore**

**Nov 2020 – June 2025**

*Integrated in Computer Science*

*3.23/4.00*

**Narayana Junior College**

**2018 – 2020**

*M.P.C*

*96.8 %*

## Experience

**Walmart**

**May 2024 – July 2024**

- Worked on Prompt Service Enhancements with a focus on:
- Harmful/Abusive Content Prevention: Implemented meta prompts to prevent responses with harmful or abusive content
- Vulnerability Prevention: Developed prompts with guardrails to mitigate jailbreaks and prompt injections.
- Customer Copyright Compliance: Created system prompts to ensure adherence to copyright regulations for code and creative content.

## Projects

**Ride Ready - Car Rental Application** | *MERN Stack Web Application, CI/CD*

**Dec 2023**

- Developed Ride Ready car rental app using MERN stack for a user-friendly platform, transcending traditional car ownership. Offers diverse vehicle options in a modern and scalable web application.
- Also employed DevOps methodologies to streamline the project's development, testing, and deployment lifecycle. Implemented a CI/CD pipeline to ensure an efficient and automated workflow, reducing manual efforts.

**Classification of Heart Beats using EMD-Generated 2D Grayscale Images** | *ML, Signal Analysis, Python* **July 2023**

- Developed a novel approach combining signal processing and machine learning to convert 1-D medical data into 2-D grayscale images, enhancing data representation and interpretability.
- Implemented LBP feature extraction for detailed texture info from images, enhancing heartbeat classification. Achieved 84.43% accuracy in collaboration with a team member.

**Rainfall Data Analysis using Statistical Models and Spatio-Temporal Techniques** | *Python*

**July 2023**

- Led detailed monthly and yearly analyses of subdivision-wise rainfall data from 1901 to 2017, utilizing advanced statistical models such as Exponential and ARIMA for climate analysis and water resource management.
- Performed spatio-temporal analysis using Kriging interpolation and Moran's I calculations to improve understanding of rainfall distribution trends, aiding informed decision-making in localized planning and mitigation.

**Online Banking Management System** | *C, Socket Programming*

**May 2022**

- Designed a sample Banking Management System using C and Socket programming. The project utilizes file storage to store account transaction details and customer information.
- Implemented a secure login system with password-protected administrative access to manage user accounts. Developed basic functionalities including account creation, deposits, withdrawals, and balance inquiries.

## Technical Skills

**Languages:** C, C++, Python, Java, MySQL, HTML, CSS, Java Script

**Developer Tools:** Git, GitHub, Linux, Jenkins, Kaggle, VScode, Google Earth Engine, QGIS, GrassGIS

**Libraries/Frameworks:** Numpy, Pandas, SDL, Sklearn, OpenCV, Pytorch

## Relevant Coursework

- |                        |                         |                                    |                          |
|------------------------|-------------------------|------------------------------------|--------------------------|
| • Data Structures      | • Systems Programming   | • Geographical Information Systems | • Visual Recognition     |
| • Software Methodology | • Computer Architecture |                                    | • Privacy in Digital Age |
| • Database Management  | • Machine Learning      |                                    |                          |

## Achievements / Extracurricular

- Achieved a percentile of 99.43 on the 2020 JEE Mains and secured a rank of 8420 on the 2020 JEE Advanced.
- Participated in many hackathons hosted by leading corporations such as Walmart and Flipkart, showcasing skills in innovative problem-solving skills and collaborative teamwork.
- Participated in event organization and volunteering, contributing to successful outcomes with a focus on collaboration and teamwork.