

# TALLA VISHNU KRANTH REDDY

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## Education

**Indian Institute of Information Technology, Raichur (IIIT Raichur)**

**Nov. 2022 – Present**

*Bachelor of Technology (BTech) in Computer Science and Engineering*

*Raichur, Karnataka*

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Systems Programming
- Software Methodology
- Database Management
- Internet Technology
- Computer Architecture

## Technical Skills

**Languages:** Python, C, HTML/CSS, JavaScript, SQL

**Developer Tools:** VS Code, Android Studio, Tableau, Power-BI

**Technologies/Frameworks:** Linux, GitHub, Git, Excel, ChatGPT

**Soft-skills:** Leadership, Time Management, Teamwork, Communication, Problem solving

## Projects

**Movie Ticket Booking System** | *PHP, MySQL, HTML/CSS, JavaScript*

**March 2024**

- Developed a web-based movie ticket booking platform with real-time seat availability and dynamic showtime filtering.
- Implemented user login/authentication, ticket confirmation via email, and a secure booking process.
- Enhanced user experience with responsive design and an intuitive UI to streamline the booking workflow.

**Railway Track Crack Detection System** | *AE Sensors, LoRa, Arduino, IoT*

**November 2023**

- Designed a real-time track monitoring system to detect cracks using Acoustic Emission (AE) sensors and LoRa for communication.
- Built an Arduino-powered prototype capable of detecting anomalies and sending alerts wirelessly.
- Documented the system's working, architecture, and results in a well-structured PDF report.

**Image-Based Detection of Fruits and Vegetables Quality** | *YOLOv8, YOLOv5, Python, OpenCV*

**February 2025**

- Developed an AI-based system for real-time classification of healthy and rotten produce using computer vision.
- Trained and deployed YOLOv5 and YOLOv8 models to detect and sort produce with high accuracy and speed.
- Contributed to an automated sorting pipeline aimed at reducing food waste and improving agricultural efficiency.

## Experience

**IIIT Raichur**

**Jan 2025 – Apr 2025**

*Teaching Assistant - HDL (Hardware Description Language)*

*Raichur, India*

- Led weekly tutorials and guided peers on digital logic design concepts including FSMs, counters, and multiplexers.
- Assisted with evaluation of lab assignments and final project reviews for over 50 students.

**IIIT Raichur**

**Jan 2025 – Apr 2025**

*Teaching Assistant - Digital System Design (DSD)*

*Raichur, India*

- Conducted sessions on combinational and sequential circuit design using Verilog.
- Provided support during lab hours and helped students debug and optimize HDL code.

## Certifications / Technical Activities

**AI for Everyone — Coursera**

**2024**

*Certificate by Andrew Ng*

*Online*

- Learned the fundamentals of Artificial Intelligence and its applications across industries.

**Python for Data Science — NPTEL**

**2023**

*Elite Certificate*

*Online*

- Mastered Python programming for data analytics, visualization, and machine learning tasks.

**IIIT Raichur Hackathon**

**2023**

*Participant*

*Raichur, India*

- Built a prototype for smart agriculture monitoring using IoT and AI integration.