

# Venkata Jayanth Bethamcharla

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## Profile Summary

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Dedicated and results-driven fresher with a strong technical background, seeking a challenging position to apply and enhance my skills in dynamic project environments. Committed to delivering optimal solutions, I am eager to adapt to diverse situations and continually improve my capabilities to meet evolving demands.

## Education

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**Chaitanya Bharathi Institute of Technology, Hyderabad**  
Bachelor of Engineering in Electronics & Communication Engineering

**November 2020 – June 2024**  
**CGPA 8.36**

**Sri Chaitanya College, Hyderabad**  
Telangana State Board of Intermediate Education

**June 2018 – May 2020**  
**Marks: 970/1000**

**Genesis International School, Hyderabad**  
Central Board of Secondary Education

**March 2018**  
**Marks: 439/500**

## Technical Skills

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- **Programming Technologies:** Python, HTML, CSS, C
- **Database Management:** MySQL, Excel
- **Soft Skills:** Multi-tasking, Consistent, Teamwork, Attention to detail, Comprehension, Presentation, Project management, Research, Stakeholder management, Verbal Communication, Written communication
- **Course Work:** Data analytics, IOT, Xilinx SDK

## Internships

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**Innomatics Research Labs, Hyderabad**

**[24 Jan 2024 – Present]**

*Data Science Intern*

**Key skills:** Data manipulation and analysis, Python problem solving, Application development and deployment.

Learned about data manipulation, analysis and python problem solving. Acquired knowledge of application development and deployment.

**The New York Times Advertising Sales virtual experience program on Forage [January 2024]**

**Key skills:** research, communications, and project management

Researched potential clients and developed compelling cold email outreach to secure initial sales conversations. Developed kick-off meeting agenda for a cross-functional team to prepare a response to a request for proposal. Communicated key client objectives to a large stakeholder group to ensure the team was focused on the most important issues.

**Eidiko System Integrators, Hyderabad**

**[15 Jun 2023 – 31 Jul 2023]**

*Software development intern*

**Key Skills:** Apache JMeter IBM Integration Bus Admin, Linux, Postman API

Acquired proficiency in Apache JMeter and Postman while deploying and validating Bar files in a project. Developed expertise in IBM Integration Bus Administration and gained familiarity with Linux commands for accessing information. Applied these skills to ensure the accuracy of data within the provided Bar files.

**Defense Electronics Research Laboratory (DLRL), Hyderabad**

**[09 Jun 2023 - 24 Jul 2023]**

*Project Trainee*

**Key Skills:** Xilinx, Xilinx SDK, Verilog, C, Xilinx, Vivado, HDL

Acquired proficiency in Xilinx tools, Verilog, and C through hands-on experience, applied in Ethernet system development using Vertex ML 507. Demonstrated expertise in custom IP core development on the Vertex ML 507 FPGA board, showcasing practical application of acquired skills. Utilized Xilinx SDK and Vivado for efficient project execution, highlighting a comprehensive

understanding of FPGA-based solutions.

## **Indian School of Business, Hyderabad**

[25 Sep 2022 - 25 Nov 2022]

### ***Interview coordinator***

#### **Key Skills: HR operations, Teamwork**

Held the role of an Interview Coordinator for various companies like Atlassian LLP, Microsoft, Lending Kart, Deloitte, Google, and Arcesium. Handled different critical scenarios Managed the interview schedules of students.

## **BHEL, Hyderabad**

[ 09 Aug 2022 - 31 Aug, 2022]

### ***Project trainee***

#### **Key Skills: Microcontrollers, Microprocessors**

Applied expertise in microcontrollers and microprocessors through hands-on experience in developing a microcontroller-based fire protection system using CO2. Acquired valuable skills in system integration and hardware programming while ensuring optimal functionality of the fire protection system worked on the project titled microcontroller-based fire protection system using CO2.

## **Swecha, Hyderabad**

[07 Oct, 2022 - 28 Oct, 2022]

### ***Web development intern***

#### **Key Skills: HTML, CSS, Javascript**

Acquired proficiency in HTML, CSS, and JavaScript while developing a website dedicated to locating nearby COVID-19 centers. Successfully applied these skills to create a user-friendly platform, showcasing a practical integration of web technologies for community health awareness. The project demonstrated hands-on utilization of HTML, CSS, and JavaScript to enhance accessibility and functionality in a real-world application.

## **Projects**

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### **Phone number and country code identifier using python.**

Developed a Python application using regular expressions to identify phone numbers and associated country codes efficiently. Leveraged Python's built-in string manipulation and incorporated custom algorithms for validating and parsing input phone numbers. Implemented a tailored algorithm to extract country codes, ensuring accurate recognition across diverse international formats. The project focuses on delivering an efficient and user-friendly solution for recognizing and categorizing international phone numbers.

### **Implementation of Custom IP Core for specific Operation**

Utilized Xilinx SDK for Custom IP Core implementation on the Vertex ML 507 platform, employing Xilinx's development tools and libraries. Defined and tailored the Custom IP Core's operations to align with project requirements, involving tasks such as signal processing and data manipulation. Successfully integrated the Custom IP Core into the Vertex ML 507 platform, configuring FPGA resources and managing interfaces. Leveraged the platform's capabilities for efficient FPGA-based development. Ensured compatibility with the overall system architecture for seamless project execution.

### **Helmet and Number plate recognition using machine learning.**

Implemented a safety-focused Helmet and Number Plate Recognition system using cutting-edge machine learning techniques. Leveraged TensorFlow and Py Torch libraries to develop a robust system capable of identifying helmets and number plates in images or video streams. Customized machine learning models were crafted through rigorous training on labeled datasets, fine-tuning parameters, and optimizing for both accuracy and speed. These models were specifically tailored for accurate helmet detection and efficient recognition of vehicle number plates. The project aimed at enhancing safety and security applications through state-of-the-art technology deployment.

### **Home Automation using NodeMCU**

Developed a Home Automation system using Arduino IDE and NodeMCU firmware, leveraging the ESP8266 Wi-Fi module for seamless connectivity and control of smart home devices. Tailored functionalities to include remote device control, environmental monitoring, and smart appliance management, meeting project requirements such as voice commands, sensor integration, and automation scheduling. Integrated the system into NodeMCU, configuring the ESP8266 microcontroller and establishing communication protocols for connected devices. Expanded functionality with mobile app integration for remote control, and optionally incorporated features like security system integration, energy monitoring, or virtual assistant compatibility. Utilized NodeMCU's open-source firmware and vibrant development community for optimal IoT application development

## **Certificates**

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- Developing Soft skills and Personality NPTEL
- Data Analytics essentials by CISCO
- Introduction to Data science by CISCO
- AI in IOT by LinkedIn
- Leverage cloud computing for IOT by LinkedIn
- GUVI python certificate
- Code Chef SQL certificate
- Great learning front end development- HTML

## **Achievements & Awards**

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- Was Awarded with the Discipline award in Grade X
- Was Awarded with an IDOL for scoring Highest marks in Grade XII.
- Secured NCC 'A' certificate.
- Was awarded with a memento for displaying exemplary efforts in raising funds for an Orphanage.