

YELLETI HARSHAVARDHAN

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EDUCATION

Bachelor of Technology (B.Tech) – Electronics and Communication Engineering 2024 – 2026
Koneru Lakshmiah Education Foundation (KLEF), India
Currently in the Second Year **CGPA: 9.68/10**

Intermediate (Class XII) 2022 – 2024
Narayana Junior College, Visakhapatnam
Percentage: **93.1%**

Secondary School (Class X) 2021 – 2022
Narayana School, Narsipatnam
Percentage: **83.66%**

TECHNICAL SKILLS

- **Programming:** C, Python, Basics of Machine Learning
- **Tools & Platforms:** NI Multisim, LTspice, seimens (Basic), EasyEDA, Cisco Packet Tracer, PyCharm
- **VLSI & Electronics:** Analog VLSI, Digital VLSI Design, MOSFET Characteristics, CMOS Fundamentals, Digital Design, Microprocessors and Controllers, ASIC and FPGA, Nanoscale Physics for Engineers.
- **Communication & Networks:** Digital Communication, Electromagnetic Waves and Transmission Lines, Network Protocols and Security, Signals and Communication Systems
- **Machine Learning & Python:** NumPy, Pandas, Matplotlib, Linear Regression, Logistic Regression, K-Means Clustering
- **Relevant Coursework:** Python Full Stack Development, Machine Learning with Python Programming, VLSI Design, Digital VLSI Design, Digital Communication, Electromagnetic Waves and Transmission Lines, Network Protocols and Security

ACADEMIC PROJECTS

Extracurricular Activity and Achievement Tracker *Academic Project*

- Developed a web-based system to manage student extracurricular activities and achievements
- Implemented activity tracking and data management using Python Full Stack concepts
- Improved practical skills in Python programming and web development

DC Analysis and Short Channel Effects in MOSFETs *Academic Project*

- Analyzed NMOS and PMOS transistor characteristics using **NI Multisim** and **LTspice**
- Studied short-channel effects and channel length modulation in MOSFETs
- Plotted and interpreted I_D-V_{GS} and I_D-V_{DS} characteristics

Machine Learning for Weather Data Analysis *Academic Project*

- Analyzed weather datasets using **Python**
- Implemented regression and clustering algorithms for data analysis
- Evaluated model performance using standard machine learning metrics

INTERNSHIP

Summer Internship Program – FPGA VLSI Course

- Completed an industry-oriented internship in FPGA and VLSI Design at SSIT Solutions Pvt. Ltd.
- Acquired hands-on knowledge of digital design concepts and FPGA architecture.
- Participated in project-based training to enhance problem-solving and communication skills.

CERTIFICATIONS

- **Taras** – AIML with python programming.
- **Coursera** – Python for Everybody, Data Structures, Bits and Bytes.
- **Linux Foundation** – Introduction to Hands-On Linux.
- **Cisco NetAcad** – Getting Started with Cisco Packet Tracer.

PROBLEM SOLVING AND COMPETITIVE PROGRAMMING

- Active problem-solving on **CodeChef(3*)** and **LeetCode**
- Strong analytical, logical reasoning, and debugging skills
- Working knowledge of data structures (Arrays, Linked Lists, Trees, Stacks, Queues) and algorithms (Sorting, Searching)

PROFESSIONAL SKILLS

- **Soft Skills:** Analytical Thinking, Problem Solving, Quick Learner, Team Collaboration, Attention to Detail, Self-Motivated

INTERESTS AND ACTIVITIES

- **Technical Interests:** VLSI and Semiconductor Devices, GATE Preparation, Competitive Programming
- **Hobbies:** Car Riding, Playing Cricket, Exploring New Technologies

DECLARATION

I hereby declare that the above information is true and correct to the best of my knowledge and belief.

Place: Narsipatnam

Signature: Yelleti Harshavardhan