

JARPULA AJAY NAYAK

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Electronic Engineering IIT (BHU), Varanasi	8.13	2025
TSBIE (XII)	Sri Chaitanya JR Kalasala	97.00	2021
TSBSE (X)	Sri Chaitanya High School, Kukatpally,	92.15	2019

SKILLS

- **Programming Skills** : C++ , C.
- **Frameworks and Libraries** : Proteus , Matlab(simulink).
- **Areas and Interest** : Digital Electronics , Analog Electronics, Embedded systems.

INTERNSHIP/TRAINING

Software Developer Internship, Investco Capital Ventures Pvt. Ltd

May-July'24

- Integrated a third-party *API* to efficiently retrieve and securely store GST details of borrowers in the database.
- Automated referral emails using *SMTP* driving the acquisition of suppliers and buyers linked to first-level borrowers.
- Designed a reward system to manage voucher crediting and redemption using Django *Models* and *Signals*.
- Built an admin dashboard using *ReactJS*, for tracking the onboarding progress of referred users.
- Exposure: Python, Django, ReactJS, API.

PROJECTS

Electronic Voting Machine (EVM)

- Designed an *Electronic Voting Machine (EVM)* using *logic circuits*, for reliable and secure voting process.
- Programmed a *3-second disable* feature to prevent false triggers, enhancing the integrity of each vote cast.
- Integrated features like *password protection* and **NOTA (None of the Above)** option, improving user experience.

Hand Gesture-Controlled Weather Sensor

- Engineered a hand gesture-controlled weather sensor using *Node MCU* for real time data processing.
- Employed computer vision techniques such as *CNN* and *OpenCV libraries* to interpret user gestures
- Explored different sensors and integrated *DHT 22* and *BMP 280* modules to collect weather data.

Image Colorization System using IoT Devices

- Developed an IoT-based image colorization system, deploying a model on Raspberry Pi for real-time processing of grayscale images.
- Integrated hardware components and optimized performance to enhance image output quality and efficiency.
- Utilized OpenCV for image processing tasks, showcasing proficiency in electronics and embedded systems.

POSITION OF RESPONSIBILITY

- **Marketing Executive, Spardha'22**: Organized fundraisers, secured sponsorships and partnerships with companies.
- **Marketing Coordinator, Udyam'23**: Led outreach to tech companies for sponsorships via email and LinkedIn.

HONOURS AND ACHIEVEMENTS

- **Specialist** at Codeforces with a highest rating of 1510 (ID: Ajay_2022).
- Achieved **Global Rank** 595 and 435 in CodeChef Starters 147 and Starters 141 respectively.
- Secured **Global Rank** 1978 in Codeforces Round 940.
- Attained **Global Rank** 76 in Algo_Arena_01 at IIT BHU.
- Solved over **500 Problems** on LeetCode, Geeks For Geeks, and other platforms.

EXTRA-CURRICULAR ACTIVITIES

- Participated in **Digisim** a digital electronics based event in technical fest Udyam'23 , IIT BHU.
- Participated in **Mosaic** a machine learning based event in technical fest Udyam'23, IIT BHU .
- Participated in **Devbits** a Competitive programming and Web Development based event in technical fest Udyam'23,IIT BHU.

T: 8309181800 **E:** ajaynayakj2@gmail.com **Address:** H:No 15-21-150/3/8 , New Balaji Nagar
,Kukatpally , Medchal , Telangana.