

# Nandyala Varun Reddy

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in <https://www.linkedin.com/in/varunandyala>

## Career Objective

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Driven and ambitious B.Tech student with a passion for excellence and pro active approach to learning. Committed to delivering high quality results with a strong work ethic and unwavering dedication. Seeking opportunities to leverage technical expertise and innovative thinking to contribute to the success of a dynamic organization while continuously enhancing personal and professional growth.

## Education

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<b>Sri High school</b> <i>High School, GPA: 10/10</i>	<b>Kodad, Telangana</b> 2020
<b>Narayana Junior College</b> <i>Intermediate in MPC (Maths, Physics &amp; Chemistry), Score: 955/1000</i>	<b>Hyderabad</b> 2020–2022
<b>Veltech University</b> <i>Bachelor of Technology in Computer Science &amp; Design, GPA: 9.0</i> Relevant Coursework: Database Systems, Web Development, UI/UX Designing	<b>Chennai</b> 2022–2026

## Projects

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**DrivenSys: Safe driving system with IoT & CTNS:** Developed an IoT-based system for road safety, integrating real-time monitoring, pothole detection, vehicle classification, and traffic prediction. Utilized SpO2, GSM, and GPS sensors to track driver health and location, triggering alerts for medical emergencies. Enhanced navigation and road conditions by optimizing traffic flow and detecting infrastructure issues.

**Safe Drive alert:** A vehicle safety system under challenging conditions like fog, rain, and nighttime driving. Integrated ultrasonic sensors, and microwave RADAR for precise hazard detection and real-time alerts. Utilized Node MCU for real-time processing, GPS for location tracking, and GSM modules for emergency notifications.

**Text-to-Speech Converter:** Developed a TTS converter using Tacotron2 and Waveglow models to increase the accessibility of the TTS converter.

**Machine Learning Model for Sentiment Analysis:** Implemented a sentiment analysis model using Python and NLP libraries to classify reviews as positive or negative. Achieved 85% accuracy.

## Technical Skills

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**Programming Languages:** Python, SQL

**Web Development:** HTML5, CSS3, JavaScript, Bootstrap

**Database Management:** MySQL, MongoDB

**Tools:** Google Collaboratory, MySQL, MySQL Workbench, VS Code, Figma, Canva

## Certificates

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🔗 Python for Data science

🔗 CCNA: Introduction to Networks

## Publications

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**Enhancing Accessibility and Communication through Text to Speech Conversion**

BITCON-24, Dec 2024

## Interests

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**Technology:** Web Development, Machine Learning, UI/UX Designing, Database management, Data Analysis, Internet of Things, 3D modelling.

**Hobbies:** Photography, Trekking, Watching Movies & Series