



## Gudipati Umesh

Roll No.: 22EEB0B14

B.Tech

Electrical and Electronics Engineering

National Institute Of Technology, Warangal

+91-6303746599

umeshgudipati530731@gmail.com

gu22eeb0b14@student.nitw.ac.in

umesh530731

gudipati-umesh

### EDUCATION

- National Institute of Technology, Warangal** 2022-26  
B.Tech, Electrical and Electronics Engineering CGPA: 8.81
- National Institute of Technology, Warangal** 2023-26  
Minor in Computer Science Engineering CGPA: 8.5
- Happy Valley School** 2020-22  
Central Board of Secondary Education Percentage: 95.2
- Sri Chaitanya High School** 2020  
Board of Secondary Education, Andhra Pradesh Percentage: 100

### PERSONAL PROJECTS

- EV Range Prediction using Machine Learning**  
Built a regression-based ML model to predict electric vehicle range in different weather conditions based on battery and usage parameters.
  - Tools & Libraries used: **Python, Flask, Scikit-learn, Pandas, NumPy, Matplotlib**
  - Cleaned and processed real-world EV datasets with features like top speed, total power, torque, charge power, etc.
  - Trained and compared multiple models like **LinearRegression, RandomForestRegressor, RandomForestClassifier, and DecisionTreeRegressor**.
  - Achieved high accuracy with LinearRegression, resulting in only 8% Mean Absolute Error (MAE) on test data.
- Smart Control of Electrical Appliances through Website**  
Created a web page that is helpful for controlling smart appliances with the help of the Internet of Things
  - Tools & technologies used: **HTML, CSS** and some basic electronic appliances
  - A webpage has been developed that includes information about every classroom in our department as well as the schedule of classes. With the use of the Internet of Things, an example of smart control is demonstrated by connecting appliances to a shared internet network.
- Design of Online Coding Platform Database**  
Designed a SQL-based database to support an online coding platform to practice coding problems
  - Tools & technologies used: **SQL**
  - A database was designed to practice problems on a coding website. It includes many features such as participating in contests that occur weekly, announcing results, practicing problems, and a store that helps them buy necessary goodies

### TECHNICAL SKILLS AND INTERESTS

- Languages:** C++, Python, MySQL, HTML, CSS, JavaScript
- Soft Skills:** Problem Solving, Team Work, Time management, Work ethic
- Coursework:** Data Structures and Algorithms, Problem Solving and Computer Programming, Database Management Systems, OOP in C++, Python Programming, Operating Systems\*
- Other Interests:** Learning New Technologies (Machine Learning, Data Analytics, etc.)

### POSITIONS OF RESPONSIBILITY

- Joint Secretary, Electrical Engineering Society (EES), NITW** 2023-24  
Organized and managed various events and workshops significantly enhancing student engagement.  
Created and maintained an engaging social media presence, which significantly enhanced the society's visibility.

### ACHIEVEMENTS

- Earned Merit Cum Means Scholarship** issued by NITW based on academic performance 2024
- Reliance Scholar UG** Achieved Success in Reliance-UG Scholarship Test 2023
- AP EAMCET**, Secured CRL of **471** among 0.2 million students 2022