Jignesh Rana

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EDUCATION

Atharva College of Engineering, *B.E. in Information Technology* | Mumbai   GPA: 8.89 / 10.0   2022-2025

Shri Bhagubhai Mafatlal Polytechnic, *Diploma in Information Technology* | Mumbai   Percent: 89.87%   2019-2022

Core Subjects: Data Structure and Algorithms, Computer Networks, Database Management System, Java, Machine Learning, Data Mining and Warehousing, Advance DBMS, Operating System, Advance Algorithm

EXPERIENCE

WEQ Technologies, *Web Developer (Intern)* | Mumbai   June 2021 - Aug 2021
- Worked as Backend Web Developer
- Used Node.js for backend in their on-going project
- Managed Routes, implemented validation and authentication
- Also integrated project with database

SKILLS

Languages
Python, C/C++, C#, Java, PHP, ASP.NET, Javascript, Flask, Django, HTML/CSS, Express, SQL, MongoDB, Flutter, Oracle Database, JDBC, Java Swing,

Technical Skills
Andriod Studio, Git, Responsive Design, Integration and Authentication, Problem Solving

Achievements
VNPS National Level Project Presentation Competition- 1st RunnerUp, ACE-TECHTROVE Project Presentation Competition- 1st RunnerUp, National Level Project & Paper Presentation Competition- 1st RunnerUp, State Level Competition- 1st Consolation, IJRASET Paper Publication

PROJECTS

Agro Drone IOT based ML Drone for Agricultural Domain,
- Develop a drone that autonomously flies over a predefined path to capture videos of crops, fruits, and vegetables, storing the footage on an SD card.
- Use the captured video as input for a machine learning algorithm to assess the condition of the crops, and implement object avoidance to halt and wait for obstacles to clear before continuing its path.

Agro Dew IOT based ML Drone for Agricultural Domain,
- Developed an irrigation system using embedded technology to enable remote motor activation via a GSM module, allowing control through SMS commands from any location.
- This system eliminates geographical constraints and ensures efficient water flow to farmlands by seamlessly triggering the irrigation motor remotely.

Android Function Generator Research Paper Published in IJRASET Journal
- The paper describes an Android app that functions as a generator for electrical waveforms such as sine, square, and sawtooth waves
- This app aims to make generating AC signals, typically used in labs, accessible via smartphones, offering practical use in remote locations where traditional generators are impractical to transport