


Raja Asiwai

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 GitHub

Education

Electrical Engineering, *Indian Institute of Technology Hyderabad (IIT Hyderabad)*

07/2017 – 06/2022 | Hyderabad, India

GPA: 7.1

Senior Secondary School (XII),

SVP Sr Sec School

05/2015 – 06/2016 | Jaipur, India

Percentile: 84.80% with 100 out of 100 in mathematics.

Secondary School (X), *SSVM Sr Sec School*

05/2013 – 06/2014 | Jaipur, India

Percentile: 81.33%.

Profile

Real-life problems solving using technology

Love projects and teaching

Explore my limits and push them to learn new

Work on different languages/technologies

Languages

- Hindi
- English

Skills

C, C++, Python, Java, Data Structure, Algorithms, HTML, CSS, JavaScript, OOPS

Professional Experience

Quality Analyst, *FreeCo Education*

09/2021 – 12/2021 | Jaipur, India

Checked the education content quality

Updated and added correct and new methods.

Doubt Solver, *Kunduz*

09/2020 – 11/2020 | Jaipur, India

Solved Mathematics and Physics questions of students, preparing for IIT Exam.

Mentor and Recruiter, *MyTutor247*

07/2019 – 01/2020 | Hyderabad, India

Mentored students to prepare for the IIT exam

Taught mathematics and Physics topics

Recruited other mentor and doubt solver for company.

Teacher, *Prayaas Corps (NGO)*


05/2019 – 06/2019 | Jaipur, India

Taught students till the 9th class

Arranged Carnival functions and games for the children

Projects

ML Price Predict Model 

Archived data from the Boston Housing UCI ML repository 

Imported data using pandas in Jupyter notebook

Created data pipeline using python, sklearn, numpy, imputer, etc.

ML model predicts the price for houses..

Smart Control on Vehicles

Every vehicle chip contains the person data who can ride that vehicle

Created time limit OTP and QR code using python

Appreciated by college professors to build.

Criminal Catcher

Dangerous criminal will wear this neckband

Implemented options to located, unconscious, or kill the criminal

Approved by Jailer and Jail Superintendent to build.

Smart Power monitor

Collected the data using Power Monitoring Device and uploaded using Arduino, Wi-Fi-module

Collected the class timing data from Institute

Created a server to show data using NodeJs, Postman, Express, MongoDB, pug

Calculated the power usage when there are no classes

Implemented by IITH and saved 6-7% cost (1 Lac INR/building per month).

Electric Vehicles

Calculated cost for diesel buses and vehicles used in IITH

Calculated cost to transform them into hybrid diesel-electric

Calculated cost for EV and Solar panel charger

Approved by IITH and replaced all vehicles with EVs.

Academic Projects

Smart toy-car with smart street lights (using Arduino, servo motor and sensors)

Smart Fish (using Arduino, IR)

FM Radio

Battery charger and charge estimation of a battery with Arduino

Specific voice-controlled car

Drone

Frequency Shift Key

Object detection (openCV),

Requirements and cost analysis of 5G network for Indian people and military