

RAJAN SHUKLA

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[Portfolio Website](#) [◇ LinkedIn](#) [◇ GitHub](#)

OBJECTIVE

To use my knowledge of machine learning and programming skills to solve real-world problems and drive business value.

EDUCATION

M. Tech in Communication and signal processing., Indian Institute of Technology, Mandi. Expected 2023
Specialization : **Machine Learning**.
CGPA: 7.44 (Till 3rd sem)

B. Tech in ECE, Maharshi Dayanand University, Rohtak 2016 - 2020
Percentage: 76.49 %

SKILLS

Technical Skills	Python, C++, Matlab, SQL, TensorFlow, Linux, Git, Docker, Deep-Learning Computer-Vision, NLP, Regex, RestApi, Excel, Power BI, Kafka, MongoDB, PySpark, Node-Red,
Hardware	ESP32, Arduino Uno, BLE33 sense, Raspberry-Pi, Jetson Nano.

PART TIME JOB-EXPERIENCE

Map Data Analyst Telus International AI	Dec 2021 - Present <i>Remote Job</i>
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PROJECTS

Diagnostic Procedure To Estimate The Muscle Failure In Older Adults.(M. Tech Thesis) — TinyML July 2022 – Present

In this study, we developed a TinyML-based diagnostic system for estimating muscle failure in older adults. Our system utilizes sEMG and IMU sensors to capture data on muscle activity and movement and applies machine learning algorithms to analyze this data in real time. By providing early warning signs of muscle failure, our system has the potential to help older adults maintain their independence and prevent falls and other injuries. Our aim is to show that our system is accurate and reliable. ([More Info](#))

White Board Camera - Computer Vision. ([GitHub](#)) ([YouTube Demo](#)) ([article](#))

SDA-WEB-TOOL(LATEST PROJECT) — Data Analysis. ([Live Link](#)) ([GitHub](#)) ([medium](#))

AI+ Eye-state Classification (EEG) — Machine Learning EEG signals used to accurately detect and classify eye states with 80% accuracy using XGBoost ML model. Applications include human-computer interaction and neurological disorder diagnosis.

First Lab of I.I.T Mandi to work on hybrid mode.— Hardware Lab setup As a member of a six-person team during the COVID-19 pandemic, I contributed to the upgrade of the Control Lab at IIT Mandi to allow online access for remote students. Our efforts were highlighted in an INDIA TODAY article. ([India Today](#)) ([more info](#))

RECENT-BLOGS

- Advance in Python Sorting in incredible ways! ([medium-blog](#)).
- Top 10 Python Advance Techniques You Should Be Using In 2023. ([medium-blog](#)).
- Uncovering the Truth Behind Your Linear Regression Model: The Importance of Static Testing. ([medium-blog](#)).

HOBBIES

- Writing, Drawing ([Click](#)) , Trekking.