

# RAJAN SHUKLA

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[Portfolio Website](#) ◊ [Linkedin](#) ◊ [GitHub](#) ◊ [medium](#) ◊ [Kaggle](#)

## EDUCATION

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**M. Tech CSP**, Indian Institute of Technology, Mandi. 2021 - 2023

Specialization : **Machine Learning**.

CGPA: 7.84

**B. Tech in ECE**, Maharshi Dayanand University, Rohtak 2016 - 2020

Percentage: 76.49 %

## SKILLS

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**Technical Skills** Python, Data-structure and Algorithm, OOPs, C++, Java, SpringBoot, LLMs, Transformers, Generative AI, TensorFlow, Linux, Git, Docker, Deep-Learning Computer-Vision, NLP, Regex, Pytorch, Huggingfaces, QLora, PEFT.

## PROJECTS

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**Fall Estimation System With Edge Deployment.(M. Tech Thesis) — EdgeAI, Deep Learning**

- Developed a data pipeline for capturing and processing sEMG and IMU sensor data.
- Achieved 86.49% accuracy for normal & abnormal gait through deep learning model training.
- Deployed the model on a edge device using Tiny-ML technique to provide early warning signs of muscle failure.
- This system helps older adults maintain independence and prevent falls.

[\(More Info\)](#)

**White Board Camera - Computer Vision.**

- An affordable whiteboard camera using Raspberry Pi for remote teaching during M.Tech Winter Project.
- Utilized OpenCV tools & RTSP protocol for seamless video streaming and correction of keystone and brightness.
- Estimated total setup cost of Rs. 6,000 – Rs. 6,500.

[\(GitHub\)](#) [\(YouTube Demo\)](#) [\(article\)](#)

**SDA-WEB-TOOL(LATEST PROJECT) — Data Analysis.**

- Built an interactive web app using Streamlit and Python to analyze large datasets from the North West Himalayan region in India.
- Plotted various spatial statistics and line plots, such as histograms, box plots, and ECDF plots. Achieved a 10x reduction in data analysis time.
- Overcame dataset size and user-friendliness challenges to create an essential tool in data analysis workflow.

[\(Live Link\)](#) [\(GitHub\)](#) [\(medium\)](#)

## WORK EXPERIENCE

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**Sr. Software Engineer, LTIMINDTREE**

**July-2023 Currently Working.**

Working on development of Canvas AI platform for serving Enterprise level solution to the client. Tech Stack for development: Angular, SpringBoot, MongoDB, Tensorflow, Javascript, Java, Python.

**Ranked 464/15941 on Titanic competition in Kaggle**