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, HPC, Deep-Learning Computer-Vision, NLP, Regex, RestApi, Excel, Power BI.
Soft Skills	Innovative, Quick learner, Presentation, Digital arts.

PART TIME JOB-EXPERIENCE

Map Data Analyst Dec 2021 - Present
Telus International AI *Remote Job*

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)

SDA-WEB-TOOL(LATEST PROJECT) — Data Analysis. (Live Link) (GitHub)

TOMATO PLANT DISEASE PREDICTION — Computer Vision-Convolutional Neural Network(CNN)
Trained the CNN Network to classify the 6 different leaf diseases on tomato plants with an accuracy of 80.13 % . Then the trained model is converted into The Rest API after that is containerized with the docker engine. Finally, the containeris deployed onto the Amazon EC2 instance. (Edit) Recently accuracy improved by 6 % using a RESNET based model.

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.