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ATUL KUMAR



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2022	M.TECH (Farm machinery & power)	IIT Kharagpur	8.17/10
2019	B.Tech (Agriculture Engineering)	Jawaharlal Nehru Krishi Vishwavidyalaya	7.37/10
2013	12 th board (Physics, chemistry, math)	Government higher secondary school, Majhagawan	84%
2011	10 th board	Saraswati sishu mandir, Majhagawan	81.16%

COURSE WORK INFORMATION

Tractors system design, Farm machinery design, Alternative energy sources, Internal combustion engine, Tyre technology, Soil dynamics in tillage & traction, Statistical method, Robotics

SKILLS AND EXPERTISE

Programing skill-Python

Soft skills- Interpersonal skill, team work, time management, creativity

Technical skill- Design and operation of agriculture equipment, operation of tractor and diesel engines, Microsoft office, web page design

Software and Platforms-MATLAB, Anaconda

PROJECTS

B.Tech project:-"Development of a structure for controlling irrigation erosion due to pipe flow"

In the field, direct irrigation caused the cutting of soil where the water falls from the pump. To overcome this problem, a cuboid shaped open box structure of iron has developed where water was come from pump to open surface of structure and an outlet has provided with iron sheet where stilling basin has provided for reducing the velocity which reduce erosion effectively

M.Tech project:-"Chili identification on field by image processing"

A large number of images of green chilies and red chilies are taken and processed through MATLAB software where image processing operations has done to modify the image quality and also for detection of red chilies from a chili plant images. For separating both type of chilies, a CNN based machine learning model is developed with the help of keras and tensorflow in jupyter notebook by data training and testing.

TRAINING

1. One month training from **Central Farm machinery Training and Testing Institute, Budni**

(Madhya Pradesh) :- Training on

Operation and maintenance of tractor and agriculture machinery, Study of various sub-assemblies of tractor and diesel engine, Introduction to tractor testing activities.

2. One month training from **Central Institute of Post-Harvest Engineering and Technology,**

Ludhiana (Punjab):- Training on

Study of microencapsulation and spray chilling

INTERNSHIPS

Four months college internship of **IWMP evaluation** from **Water and Land Management Institute,**

Bhopal(Madhya Pradesh):- Role of internship are

Survey of Watershed areas and evaluate the impact of watershed structure, evaluate the agriculture and livelihood activities, check the measurements of structure and cost expenditure of administration.

CERTIFICATIONS

Diploma in computer application from Makhn Lal Chaturvedi national university of journalism and communication, Bhopal(Madhya Pradesh)

AWARDS AND ACHIEVEMENTS

GATE 2020- Secured All India rank 76 in GATE 2020 exam