CURRICULUM VITAE

SUDHEER KUMAR

Assistant Professor

Ch. Chhotu Ram (PG) College

Muzaffarnagar (U.P.), India

Phone: +91-9560440257
E-mail: sudheergkp@gmail.com

OBJECTIVE

Seeking a challenging career where my knowledge and skills can be honed by working with the latest technologies and contribute towards the society and the goals of the organization.

EDUCATIONAL DETAILS

DEGREE	BOARD/UNIVERSITY	YEAR OF PASSING	PERCENTAGE/CGPA
M. Tech (Land and Water Resources Engineering)	Indian Institute of Technology, Kharagpur	2013	7.77
B. Tech (Agricultural Engineering)	Chandra Shekhar Azad University of Agriculture and Technology, Kanpur	2011	7.37
Intermediate	UP Board	2006	75.54
High school	UP Board	2004	61.00

PROFESSIONAL EXPERIENCE

India Meteorological Department, *December, 2015- Jan,2020*
New Delhi
Senior Researcher

Roles and Responsibilities

- Irrigation Water Management: To develop algorithm for irrigation scheduling using Machine Learning (ML) and Numerical modeling methods.

- Estimation of soil moisture contents using Microwave Remote Sensing data.

- Risk analysis: Weather risk analysis for extreme weather events.

- Hydrological modelling: SWAT model was used to estimation of potential evapotranspiration and soil moisture content.
- Crop Yield Forecasting: Statistical technique and Crop simulation model used to forecast crop yield at district and state level. Moreover, A study was also carried out to enhance the accuracy of crop yield forecast comparing different feature selection method.
- IMD and NASA grid data: Processing of grid weather data to utilise in various simulation models.
- Engaged in GKMS (Gramin Krishi Mausam Seva) project to prepare agromet advisory.

Indian Agricultural Research Institute   *July, 2013- March, 2014*
WTC, New Delhi
Senior Research Fellow
Roles and Responsibilities

- Irrigation Water Management
- Development of Decision Support System for irrigated saline environment using SWAP model.
- Investigate water quality of surface and subsurface drainage.

SKILL SET

Areas of Interest : Hydrological Modelling, Irrigation Water Manangement, Risk analysis,
                       Crop Yield Forecasting , Remote Sensing and GIS
Model used   :SWAT, HSPF, SWAP, DSSAT, CROPWAT, SAS, Minitab, SPSS
Programming Languages: R , Matlab
Operating Systems   **:** Windows, M S Office, Internet application

COURSE PROJECTS

M TECH (2012-2013)	Assessment of Streamflow, Sediment Yield and Nutrient Transport in the Subarnarekha River Basin using the Arc-SWAT model.
B TECH (2010-2011)	Comparative Studies of 35HP Tractors.

AWARD AND HONOR

- Qualified ICAR NET, 2013
- MHRD Scholarship during 2011-13

RESERCH PUBLICATION AND PRESENTATION

Sudheer Kumar, S. D. Attri, K. K. Singh, (2019). Comparison of Lasso and stepwise regression technique for wheat yield prediction. Journal of Agrometeorology 21 (2) : 188-192

S D Attri, **Sudheer Kumar**, N Chattopadhyay, S Tiwari and Anita Kashyap(2019). The study of frost occurrence and risk analysis in Gangetic Plains of India during recent decades MAUSAM, 71, 1, 95-102.

K N Singh, K K Singh, **Sudheer Kumar**, Sanjeev Panwar and Bishal Gurung(2019). Forecasting crop yield using weather indices through LASSO. Indian Journal of Agricultural Sciences 89 (3): 540–4.

Sudheer Kumar, SD Attri, Anil Kumar Soni, Lata Vishnoi, KK Singh, Gaurav Sharma and Jayant Nath Tripathi (2019). Satellite derived crop coefficient and crop water stress for soybean in semi-arid region of India, Journal of Agrometeorology 21, Special Issue-1 : 140-146

Sudheer Kumar, S D Attri AND KK Singh(2019). Retrieval of soil moisture contents and its Validation using Microwave satellite data for Indian region. Oral presentation, INAGMET-2019, International Symposium, JNU New Delhi.

PERSONAL DETAILS

Name	Sudheer Kumar
Father's Name	Shailendra Kumar
Date of Birth	2 January 1990
Gender	Male
Languages	English, Hindi
Interests	Solving Sudoku, Cricket, Playing Badminton, Swimming

DECLARATION

I hereby declare that all the above written particulars are true to the best of my knowledge and belief.

SUDHEER KUMAR