

KANNEGANTI BHARGAV KUMAR

Curriculum Vitae

PERSONAL DETAILS

Current Address	Department of Civil Engineering, Indian Institute of Science CV Raman Road, Bangalore, Karnataka, 560012.
Permanent Address	S/o Subba Rao, Do No:3/13, Solasa(Post), Edlapadu Mandal Guntur District, Andhra Pradesh, 522234.
Birth	August 25, 1993
Phone	(+91) 8008314204, 9701496664
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EDUCATION

Ph.D (Civil Engineering)

2019-2024

Indian Institute of Science Bangalore

- Percentage: 8.8/10 (CGPA).
- Major Courses : Surface Water Hydrology, Applied Probability and Statistics, Regression and Time Series Analysis, Advanced Analytics and Introduction to Climate Systems.
- Major Research Area: Hydro-meteorologic extremes such as floods, droughts.

M.Tech (Water Resources Engineering)

2015-2017

Indian Institute of Technology Guwahati

- Percentage: 8.84/10 (CGPA)
- Major Courses : Advanced Hydrology, Hydroclimatology, Stochastic Hydrology, River Engineering, Advanced Hydraulics, Water Resources Systems Analysis and Planning, and Numerical Methods in Civil Engineering.

B.Tech (Civil Engineering)

2012-2015

Gayatri Vidya Parishad College of Engineering, Visakhapatnam

- Percentage: 76.53 (100)
- Major Courses: Engineering Hydrology, Irrigation Engineering, Environmental Engineering, Soil Mechanics, Structural Analysis, Transportation Engineering, Surveying, and Remote Sensing and Geographical Information System.

Diploma (Civil Engineering)

2008-2011

AANM and VVRSR Polytechnical College, Gudlavalleru

- Percentage : 78.57 (100)
- Major Courses: Basic Hydrology, Irrigation Engineering, Surveying, Soil Mechanics, Environmental Engineering, Hydraulics and Hydraulic Machinery and Transportation Engineering.

Secondary/Matriculation

2007-2008

Modern Public School, Chilakaluripet

- Percentage: 78.85(100)

WORK EXPERIENCE

Junior Research Fellow

2018-2019

Indian Institute of Science Bangalore

The role of the position is to conduct the research on spatial and temporal variability of high rainfall events with major focus is on urban areas where the convective processes are predominant.

Research Intern

2020(05-07)

Sagri Agritech Private Limited., Part-time

The role of this position is to conduct research on real time crop monitoring systems with the aid of remote sensing techniques.

PUBLICATIONS

- Goswami, U. P., **Bhargav, K.**, Hazra, B., & Goyal, M. K. (2018). Spatiotemporal and joint probability behavior of temperature extremes over the Himalayan region under changing climate. *Theoretical and Applied Climatology*, 134(1-2), 477-498.
- Hazra B., Goyal, M. K., **Bhargav, K.**, (2021). Generation of multivariate synthetic hydrological series using blind source separation techniques and copula functions, In Press, *Journal of Environmental Informatics*.

ACHIEVEMENTS

- Prime Minister Research Fellowship(PMRF), Duration: 2020-2024.
- M.Tech Engg. Teaching Assistanship, Indian Institute of Technology Guwahati, Duration:2015-2017.
- Secured State **8th** Rank in Engineering Common Entrance Test conducted by Andhra Pradesh Government (2012).
- Student Merit Scholarship for outstanding performance in Engineering Common Entrance Test, North-South Foundation, Duration:2012-2015
- Student Merit Scholarship for outstanding performance in Engineering Common Entrance Test, Kamma Sangham Foundation, Duration:2012-2015.
- Won a Gold Medal in Inter Hostel Cricket Tournament, IIT Guwahati (2017).

ACADEMIC PROJECTS

- **M.Tech Thesis Dissertation : Multivariate Analysis of Hydrological Variables using Copula Functions and Blind Source Separation Techniques:-**The thesis explores the relative strengths of multivariate modelling of hydrologic variables using parametric and non parametric approaches through with application to Drought characterisation and synthetic Stream flow Generation.
- **B.Tech Thesis Dissertation: Design of Micro Hydro power plant for High Rise Buildings:-** The Thesis explores idea of utilisation of potential energy of rainwater collected on the rooftop of high rise buildings to produce the green energy(i.e. Hydroelectric Power) at an affordable price. Further, the rainwater will be harvested with an aim of recharge of ground

water. A modified portable pelton wheel turbine is designed, and performance curves at different operational conditions are developed.

SKILLS

<i>Languages</i>	Telugu (Mother tongue) English (fluent) Hindi (fluent)
<i>Software</i>	MATLAB, L ^A T _E X, R Programming, Python, SWMM, Arc GIS, HEC-HMS

CONFERENCES/WORKSHOPS

- International Workshop on “**Urban Floods**” conducted by Interdisciplinary Centre for Water Research (ICWaR) and Divecha Centre for Climate Change(DCCC) , IISc Bangalore (2019).
- International Conference on “Infrastructure challenges in precast concrete” conducted by Association of Civil Engineers, Gayatri Vidya Parishad college of Engineering at Visakhapatnam (2014).

ROLES & RESPONSIBILITIES

- **Vice President** for Entrepreneur and Innovation at IISc, Bangalore (2018-Present).
- **General Secretary**, Hostel Affairs Board, Student Gymkhana Council, IIT Guwahati (2016-2017).
- **Vice President**, Institute of Engineer’s student Chapters of Gayatri Vidya Parishad College of Engineering, Visakhapatnam (2014-2015) .

CERTIFICATION PROGRAMS

- “**Advance Remote Sensing GIS: Methods and Applications**” conducted by Association of Civil Engineers, Department of Civil Engineering, IIT Guwahati (2017).
- “**8 Week Entrepreneurship Boot camp Program**” organised by TiE Delhi and Information Technology Research Academy (ITRA), New Delhi (2019).

EXTRA CURRICULAR ACTIVITIES

- Violinist(Carnatic).
- Regular Player of Table Tennis, Cricket.
- Stage Artist

REFERENCES

Will Sent Up on a Request