DATA SCIENTIST

ASHISH KUMAR

GET IN CONTACT

Website : https://ashishcssom.github.io/
Github : https://github.com/ashishcssom
Linkedin : https://www.linkedin.com/in/ashishk766/
Gmail :ashish.krb7@gmail.com

Mobile: 8335818761

Address: Ratu, Ranchi, Jharkhand-835222

PERSONAL PROFILE

A data scientist with hands-on experience in all levels of AI-ML-DL modelling, including performance, functional, integration, system, and user acceptance.

AREAS OF EXPERTISE

- Hands-on SQL (Microsoft SQL server) and no-SQL (MongoDB) experience
- Working knowledge on Python, Matlab, R, Julia and C programming
- Production level AI-ML-DL modelling and deployment in server
- Data analysis, Hydrological modeling, GIS modelling

TOOLS

- Anaconda, VS code, Microsoft office, PowerBI, Latex, Minilab, Lingo and GIT, Pytorch, sklearn etc.
- QGIS, ArcGIS, HEC-HMS, SWAT, SWMM, EPANET, MODFLOW, Aquacrop
- Python (Advance level), Matlab, MongoDB, MSSQL server, MantisBT

WORK EXPERIENCE

DATA SCIENTIST

CSS Corp Pvt. Ltd. (R & D)| 2019 – Present

- Translated business requirements into functional design
- Extensive data analysis of company's data to identify problem and solved using AI-ML
- Designed software and backend web service development
- Applied statistical techniques to diagnose business problem

TEACHING ASSISTANT

IIT Madras | 2017 – 2019

- Trained students on various computer software
- Troubleshoot software problems
- Assignment preparation and correction

EDUCATION HISTORY

IIT MADRAS, CHENNAI

Master of Technology, 2019

- Degree in Hydraulics and Water Resource Engineering [Civil Engineering]
- Learned in-depth about how to optimize real life problem and process using technological systems
- MHRD GATE scholar

BIDHAN CHANDRA KRISHI VISHWAVIDYALAYA, WEST BENGAL

Bachelor of Technology (Hons.), 2017

- Earner degree on Agricultural Engineering with Gold medal
- Learned in-depth about how modern days technology can help the Agricultural sector
- NTS scholar (ICAR)

PROJECTS

ACADEMIC PROJECTS

Network analysis of Water Distribution System using EPANET | Hydro informatics lab
·Optimized the water distribution system of Bavaliyari village, Gujarat using Genetic Algorithm

Influence of Objective function on Uncertainty analysis using SWAT model | Simulation modelling
Used SWAT model for simulation and SWAT–CUP for uncertainty analysis

Optimization of placement of wells | Groundwater Engineering
Used MODFLOW and genetic Algorithm in placement of well

Identification of suitable cropping area for Cotton and Sugarcane using GIS platform | GIS
Selected Dindigul district of Tamil Nadu for analysis and identified suitable area

PROJECT UNDERTAKEN AS A PART OF DEGREE

Institution: IIT Madras, Chennai [July'18 – Jun'19]
Project Title: Identification of critical zones in a watershed for taking prudent management decisions
Supervisor: Dr. K. P. Sudheer, Professor Department of Civil Engineering, IIT Madras
Description: Sensitivity analysis, Uncertainty analysis, Risk analysis and Hydrological modelling in done on USA basin

Institution: BCKV, West Bengal [Jan'17 – Jun'17]
Project Title: Changes of physical and hydraulic properties of soil under fertilization
Supervisor: Dr. Pralay De, Associate Professor, Department of Soil and Water Engineering, BCKV
Description: Access the effect of organic and inorganic fertilizer in soil properties. Results showed the significant change in bulk density, hydraulic conductivity and infiltration rate.

PROFESSIONAL PROJECTS

Done Exploratory data analysis (EDA) on different companies' data like Alcatel Lucent Enterprises, Blackboard, Family Dollar, Sophos and translated the business requirement into functional designs by building different classification, regressor and time series models

Developed Retrieval type chatbot using encoder–decoder model using deep learning which is now a part of CSS chatbot

Developed API (Application program interface) for sentiment analysis which is used by customer relationship management tool

Developed smart ticket routing tool which is AI based platform for routing ticket to agent

Developed probable cause predictor using unsupervised machine learning technique on emails attached to tickets, in addition to analytics like sentiment, readability, subjectivity analysis, attachment information identifier and extractive summarizer

Developing recommendation engine to suggest the knowledge base based on the issue on Switch device logs. Also developed the Window Event Log analyser using machine learning algorithms