Ashish Gahlan

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Jodhpur	6.2 (Current)	2022-Present
Senior Secondary	CBSE Board	96.1%	2020-21
Secondary	CBSE Board	94.6%	2018-19

PROJECTS

- **Thermal High Shrink-Swell Potential in Clays** *oct 2024 - Nov 2024*
  IIT Jodhpur group Project under Pradeep Kumar Dammala
    - Aim: quantify the thermal shrink-swell potential, analyze its impact on soil stability and strength, and develop predictive models for design purposes. It also seeks to provide recommendations for mitigating these effects in geotechnical engineering, particularly for infrastructure in regions with significant temperature variations.
    - Objective:investigate how temperature changes affect the shrinkage and swelling behavior of clay soils.

- **Sudoku solver** *Jan. 2024 - May. 2024*
  IIT Jodhpur DSA Group project under Dr. Suchetana Chakraborty
    - Aim: To develop an efficient algorithm to solve Sudoku puzzles using appropriate data structures.
    - Objective: Implement a Sudoku Solver that can solve puzzles of varying difficulty levels. Use efficient algorithms like backtracking or constraint propagation for optimal performance. Leverage data structures (e.g., arrays, sets, stacks) to manage Sudoku grid and constraints. Improve solution efficiency, ensuring quick solving even for complex puzzles. Provide a user-friendly interface for inputting and displaying puzzles and solutions.

- **Creating a Basic Thematic Map in QGIS** *Aug 2023 - oct 2023*
  IIT Jodhpur Geoinformatics Project
    - Aim:To learn how to visualize, analyze, and interpret spatial data using QGIS by creating a simple thematic map that displays information like land use, population density, or environmental features.
    - Objective:to learn how to use QGIS to create a thematic map by importing geographic data, such as land use or administrative boundaries. The project involves visualizing data with color coding, adding labels, and customizing map appearance. The goal is to produce a clear, professional map and export it for presentation, gaining hands-on experience with basic GIS tools and spatial analysis.

KEY COURSES TAKEN

- Data Structure and Algorithms
- RCC(Reinforced Cement Concrete)
- Probability, Statistics, and Stochastic Processes
- Linear Algebra and Differential Equations
- fluid mechanics
- Structural analysis

TECHNICAL SKILLS

- **Programming:** C/C++,Python
- **Tools & OS:** Git, Jupyter Notebook,Google Colab,Windows
- **software skill:** QGIS,ArcGIS,Ansys
- **Designing skill:** Adobe illustrator,Canva,Adobe photoshop

POSITIONS OF RESPONSIBILITY

- **Joint secretary,**Civil Department *April 2023 - April 2024*
- **Core Member,**DESIGNER Club *Present*

ACHIEVEMENTS

- **Qualify NDA** National Defence Academy and Naval Academy Examination *2019-20*