AYUSH SINGH

# SUMMARY

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Eager and quick-learning Computer Science and Engineering student with strong analytical skills. I am always ready to expand my knowledge to gain practical experience for contributing to innovative projects. I have a strong enthusiasm for learning modern technologies and make efforts to understand them thoroughly.

# TECHNICAL SKILLS

ProgrammingLanguage: C, JavaScript, Java, Python, my-SQL and Mongo-db., React JS.

Others: Docker, Git, HTML, CSS, DSA, Kubernetes and YAML and Kali Linux And AWS.

# ACADEMIC PROJECT

## Country Wide Ground Water Level Analysis Dashboard:

* **Description**: to evaluate and study the trends of groundwater levels across 28 States, 500+ Districts, 6000+ Blocks of the past 25 years. These trends are divided into 4 seasons (Pre-Monsoon, Post Rabi farming season, Post Kharif farming season). We also use different time series algorithms like ARIMA, SARIMAX, VARMAX, HWES etc. to predict trends and classify an area as Critical, Semi-Critical or safe. This helps the ministry to plan the resources wisely and effectively across India.
* **Skills Used**: **HTML, CSS And React-js.**

## Employee Management System: Technology Python and MySQL:

* **Description**: This project aims to store information about employees in any company like his/her basic information, current department, and project in which he/she is engaged. Also, this project can store the information of the dependents of employees.
* **Skills Used**: **Python and My-SQL.**

1. **ISRO Satellite Image Mapper:**

* **Description:** Uses machine learning to map farmland regions and tree regions in each satellite image having IR, red and green channels.
* **Skills Used: Python, machine learning libraries (TensorFlow, PyTorch), image processing (OpenCV), and geospatial data handling (GDAL, Roserio).**

# 4. Bank Management System:

# Description: This project simulates a simple ATM system for managing bank accounts, enabling users to withdraw money and check their balance. It leverages Java for core logic, Swing for the user interface, and MySQL for secure data storage. The system ensures efficient and reliable management of account information.

# Skill Used: Technology Java, Swing, and MySQL

# ACHIEVEMENT

* + 1. Mastered problem-solving prowess by tackling and triumphing over 200+ coding challenges across various platforms

# EDUCATION

B. E- Computer Science Engineering

Sri Venkateshwara College of Engineering 2021 — 2025