

# Piyush Agrawal

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## EDUCATION

- **Lakshmi Narain College of Technology Excellence, Bhopal** 2019 - 2023  
*B.Tech. in Computer Science Engineering; CGPA: 8.56*
- **Indira Gandhi H.S School, Sabalgarh** 2018  
*Higher Secondary Percentage: 67.2*
- **Bhartiyam Vidya Niketan, Gwalior** 2016  
*Senior Secondary; CGPA: 9.2*

## EXPERIENCE

- **Tata Consultancy Services** System Engineer Intern  
*Skills: ReactJS, Swift* Feb '23 - June '23
- **Persistent** Martian Virtual Training  
*Skills: C++, DSA, OOPS, CN, OS, SQL* May '22 - June '22

## TECHNICAL SKILLS

- **Programming Skills:** C/C++, DSA, SQL, OOPS
- **Development:** HTML/CSS, JavaScript\*, ReactJS\*, Swift
- **Courses:** Operating System, Computer Network, Machine Learning, DBMS, Digital Marketing, Fundamentals of Communication

## PROJECTS

- **Live Weather Detection** TCS  
<https://github.com/piyushagrawal1403/Live-Weather>
  - Developed a weather app with dark mode support, allowing users to check the current weather for their location and search for weather in other locations.
  - Implemented features such as user input via UITextField, error handling with guard keyword, and dynamic weather data retrieval using closures and completion handlers.
  - Utilized Swift protocols, extensions, and computed properties to enhance code modularity and reusability.
  - Integrated networking capabilities with URLSession and parsed JSON using Encodable and Decodable protocols, while also utilizing Core Location for GPS-based location retrieval.
- **Personal Portfolio** Self  
<https://piyushagrawal1403.github.io/Personal-Portfolio/>
  - Full Responsive Personal Portfolio using HTML, CSS, JavaScript.
  - **Google Apps Script** integrates contact form with Google Spread Sheet.
  - Dark and Light themes are available for a better experience.
- **Movie Recommender System** Self  
<https://movie-recommendation-system-i3kp.onrender.com/>
  - **Content-based** ML algorithm to recommend the movies to a user from dataset of 5000 movies taken from the TMDB site.
  - Core idea- Bag of words technique for implementing **Text Vectorization**, stemming for increasing accuracy and **Cosine distance** to find similarity between vectors.
  - Poster fetching is done via API id key from the TMDB site and used streamlit open-source framework.
  - As the user provides more inputs or takes actions on the recommender, the engine becomes more accurate.
- **Bus Reservation System** Self  
<https://github.com/piyushagrawal1403/Bus-Reservation-system>
  - **OOPS and File handling** concept for performing 12 different functions
  - Displays the information of the bus, bookings and provides the searching facilities based on bus, bookings and seats.
  - Deleting, Inserting and Updating of records is improved which results in proper resource management of bus data.

\* Elementary proficiency