

# Tarun Kumar

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## EDUCATION

### HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA

B.TECH IN COMPUTER SCIENCE  
AND BUSINESS SYSTEMS (2021-25)  
CGPA: 7.76 / 10.0

## LINKS

Github:// [kumartarun5678](#)  
LinkedIn:// [tarun-kumar-44341322b](#)  
PortFolio:// [portfolio](#)  
LeetCode:// [kumartarun5678](#)  
CodeChef:// [kumartarun5678](#)

## COURSEWORK

### UNDERGRADUATE

- Cloud Computing With AWS
- Operating Systems
- Database Management System
- Computer network
- Software engineering
- Automata
- Object-Oriented Programming and System
- Data Structures and Algorithms

### NPTL

- Data Science for Engineering
- Artificial Intelligence : Search Methods for Problem Solving

## SKILLS

### PROGRAMMING LANGUAGES:

- Java • Python • Javascript • C • C++

### FRONT-END FRAMEWORKS:

- CSS • HTML • ReactJS • Bootstrap

### BACK-END FRAMEWORKS:

- NodeJS • Express.js

### STORAGE TECHNOLOGIES:

- MongoDB • SQL

## EXPERIENCE

### GOOGLE DEVELOPER STUDENTS' CLUB HIT | MEMBER

Feb 2022 –Present | Kolkata, India

- Coordinated coding competitions with challenging algorithmic problems, drawing 50+ participants from diverse backgrounds; fostered collaboration and knowledge sharing, leading to a 30% increase in coding competition participation and engagement.

### CODSOFT | WEB DEVELOPMENT INTERN

01 Aug 2023 to 31 Aug 2023 | Work From Home

- Build and design perfect responsive web pages in **HTML**, **CSS**, **React.js** and **CSS**.
- Involved in Create Proper Scalable Backend ( DataBase ) using **MongoDB**.
- Creating and Testing **APIs**.

### INTERNSAVY |WEB DEVELOPMENT AND DESIGNING INTERN

1st July 2023 to 1 Aug 2023| Work From Home

- Developed a weather app using **HTML**, **CSS**, **JavaScript**, and **APIs**.
- Implemented features for fetching weather data from APIs
- Designed user interface using HTML and CSS

## PROJECT(S)

### DOCTOR'S APPOINTMENT | REACTJS |CSS | NODE.JS | EXPRESS.JS | MONGODB | ( WEBSITE LINK | GITHUB)

- Role-based access (Admin, Doctor, Patient).
- Appointment scheduling & management.
- User management & notifications.

### VEHICLE TRACKING SYSTEM | REACTJS | CSS |NODE.JS | EXPRESS.JS | MONGODB | MAP | (WEBSITE LINK | GITHUB)

- Input fields for users to enter starting and destination positions. Displaying all buses available on the route between these positions
- A form or interface for admins to add new buses to the system. Access control to restrict this functionality to admin users only.

## RESEARCH

### EXPLORING MULTIMODAL BIOMARKERS FOR AUTISM SPECTRUM DISORDER DIAGNOSIS | AI | ML | DL| MERN STACK

Jan 2024 - Present

- To develop a machine learning model that utilizes multimodal data, including MRI scans, eye tracking data, and speech analysis, to improve the accuracy and efficiency of Autism Spectrum Disorder (ASD) prediction in children.
- Engineered robust tools for precise Autism Spectrum Dysfunction detection by merging ABIDE and Kaggle data, leading to a 50% reduction in misdiagnoses and a 25% improvement in treatment outcomes.

## ACHIEVEMENTS

- India Innovets at IIT Khargpur, Kshitij 2023 : **selected for second round**
- Problem solved: **Leetcode** :> **150**