# BISHAL KUMAR GHOSH

Pursuing B.Tech in CSE

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| Examination | Majors | Institute | Year | CGPA/% |
|---|---|---|---|---|
| Graduation | CSE | Techno International New Town | 2020-2024 | 9.19 |
| Intermediate | Science | St. Paul's Academy, Burdwan | 2018-2020 | 90.5 |
| Matriculation | - | St. Paul's Academy, Burdwan | 2011-2018 | 92.4 |

## SUMMARY

I am an aspiring individual currently pursuing a Bachelor of Technology (B.Tech) degree in CSE. My academic focus and career aspirations are centered around the field of technology and engineering. As a B.Tech student, I am open to opportunities and work on new ideas in order to profit the society. I've worked both solo and in groups and came out with flying colors and hope to do so in the foreseeable future.

## PROFESSIONAL EXPERIENCE

**Project Intern** | C-DAC, Kolkata — June 2023 - Current
- Backend Development: Django, REST API
- Computer Vision Model Development

**DSA Scholar Intern** | Twowaits — (Feb 1-28, 2022)
- Coding to solve real-life problems using Data Structures

## TECHNICAL SKILLS

| | |
|---|---|
| **Programming** | Python, C, Dart, SQL |
| **Development** | Python, Java, Dart, HTML, CSS, JS |
| **Design** | AutoCAD |
| **Networking and Ethical Hacking** | Linux, Packet Sniffing, PenTesting, Trojan Creation, Kali Linux |
| **Database Systems** | MySQL, MongoDB |

## PROJECTS

## Development

**Chatbot 'Jarvis'** | MongoDB, Python, Tkinter — Completed
*Solo* (MAR'21 - MAY'21)
- User-friendly chatbot with access to internet
- Tells time, weather, interacts and can remember names (eg. Ram is the user and can remember Rammohan is the father of Ram if told to), can fetch information from internet, can read PDFs if told, can access files from Database if uploaded
- Can play songs from Youtube
- Responds to 'Hey, J'

**MetaPair** | Digitally Twinned Prosthetics for Armed Forces — (JAN'23 - Ongoing)
- Shortlisted at DRDO (Dare to Dream 4) for hearing

## Natural Farming

2023 - Current — Website Link
- Rediscovering the natural farming and the old ways of farming without pesticides and insecticides
- Currently surveying all the conditions
- AI model to help montior soil health, weather, plant quality, with assistance to the farmers
- Aimed to conserve the ecosystem and yield better crops all the year around

# PROJECTS & PUBLICATIONS

**An Automated IoT-based Green Corridor Integrated with Smart Traffic Management System for Patients Transfer**  25 July 2023
*SpringerLink*

- Won 3$^{rd}$ place at SIH internals
- DOI:

**An Automated Morphological System for Vehicle-Pedestrian Classification and Inference of Traffic Congestion Metrics**  10 October 2023
*IEEE*

- DOI:

**Trigger-based Pothole Detection, and Warning System with RQ and PHR Mapping**
A gratuitous system for govt. to maps road conditions with pinpoints to fix the areas
*Springer LNNS*  (APR'23 - OCT'23)

- Accepted at ICDMAI 2024

- Utilizes LSTM and computer vision to detect and analyse road conditions (potholes, bad sequences on road, PHR - Pothole Rate, differentiates between pothole and speed breakers, and also RQ - Road Quality)