

# TARUN HARISHCHANDRA PAL

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## Education

### Indian Institute of Information Technology

Bachelor of Technology in Information Technology - 8.49

August 2020- May 2024

Allahabad, Uttar Pradesh

### Jawahar Navodaya Vidyalaya, Chandrapur

Central Board of Secondary Education(CBSE) - 93.4%

April 2018- June 2019

Chandrapur, Maharashtra

### Jawahar Navodaya Vidyalaya, Chandrapur, Maharashtra

Central Board of Secondary Education(CBSE) - 96.2%

April 2016- June 2017

Chandrapur, Maharashtra

## Technical Skills

- **Relevant Coursework:** Data structures & Algorithms, Operating Systems, Object-Oriented Methodologies, Database Management System
- **Technical Skills:** C/C++, JavaScript, PHP, Python, MySQL
- **Tools and Frameworks:** HTML, CSS, Node.js, SQL, MongoDB, Git, WireShark, MetaSploit
- **Languages:** English, Hindi, Marathi
- **Coding Profile:** [Codechef](#), [GFG](#), [Codeforces](#), [InterviewBit](#), [Leetcode](#) (Solved 900+ DSA questions on various platform)

## Work Experience

### Shree Clinic - Precision Management | WireShark, SMTP, Google Scripts, MongoDB, Metasploit

March 2023

- Developed a real-time clinic appointment management platform with integrated reminders using front-end technologies and responsive design.
- Ensured robust data security by implementing advanced cyber security measures, including deception techniques.
- Leveraged data analytics to derive actionable insights from user interactions and appointment data.
- Successfully hosted website with integrated technologies, enabling reliable data storage, efficient email communication, and actionable insights for seamless clinic operations. [Github](#) [Live](#)

## PROJECTS

### InsightConnect: Data, Insights & Security | Python, Putty, OpenStack, SQL, WireShark, Metasploit

April 2023

- Engineered IoT device software utilizing Zigbee sensors for real-time data collection and cloud-based transmission via web sockets and TCP/IP protocol.
- Designed and deployed a data-centric web application, enabling data analysis, remote monitoring, and data-driven decision-making
- Integrated Deep Learning models for behavior pattern recognition, delivering actionable insights for improved operations
- Conducted thorough penetration testing to enhance network security, particularly addressing gateway vulnerabilities. [Github](#)

### Brain Tumor Segmentation | TensorFlow, Keras, Semantic Segmentation, Python

February 2023

- Project involved collecting and preprocessing 3D MRI data.
- Incorporated skip connections into 3D Residual U-Net model and using ML approaches and various matrices to improve performance.
- Achieved a model accuracy of 99.2 % through various techniques and optimizations. [Github](#)
- Nominated for 2023 IEEE 7th Conference on Information and Communication Technology (CICT-2023). [Research Paper](#)

## Achievements

- **Achieved Global rank 109:** Global rank 109 in June Long Two 2022 Contest — CodeChef
- **Achieved Global rank 97:** Global rank 97 in Starters 43 Contest — CodeChef
- **Solved Issue of Manual Irrigation:** Implemented Remote Irrigation System Web Service, a program that enables the functionality of a physical control panel to be accessed through a web-based virtual control panel.
- **Recommended for NDA:** Successfully cleared the NDA SSB (Staff Selection Board) from the 12th SSB board in Bangalore.