Tarun Harishchandra Pal

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Education

Indian Institute of Information Technology	**August 2020- May 2024**
Bachelor of Technology in Information Technology - 8.49	*Allahabad, Uttar Pradesh*
Jawahar Navodaya Vidyalaya, Chandrapur	**April 2018- June 2019**
Central Board of Secondary Education(CBSE) - 93.4%	*Chandrapur, Maharashtra*
Jawahar Navodaya Vidyalaya, Chandrapur, Maharashtra	**April 2016- June 2017**
Central Board of Secondary Education(CBSE) - 96.2%	*Chandrapur, Maharashtra*

Technical Skills

Relevant Coursework: Data structures, Algorithms, Operating Systems, Object Oriented Methodologies, Database Management System
Programming Languages: C/C++, HTML, CSS, JavaScript, PHP(Basic), Python (Basic), MySQL(Basic), Java (Basic)
Softwares and Tools: Node.js (Basic), React (Basic), SQL (Basic), MongoDB (Basic), Git (Basic), XAMPP
Coding Profile: Leetcode,Codeforces,InterviewBit,GeekforGeeks
Languages: English, Hindi, Marathi

PROJECTS

Web Service for Cloud and IOT Devices | *Python,Putty, HTML5,CSS3,Bootstrap,Js,XAMPP,PHP,SQL*   **April 2023**
- Built a Full-Stack Web Service Application
- Developed an IoT device that utilizes Zigbee enabled sensors to collect real-time data and sends it to a cloud-based database via the HTTP protocol.
- Designed and developed a web application that facilitates data analysis, remote monitoring, and improved decision making and operations.
- Completed a course project focused on Cloud and Edge Computing. Github

Shree Clinic Website | *HTML, CSS, JavaScript, Bootstrap, SMTP, Google Script, MongoDB*   **March 2023**
- Website Project provide a real-time clinic management platform.
- Integration of various technologies enables reliable data storage and efficient email communication. Github Live

Brain Tumor Segmentation | *Python, Deep Learning*   **February 2023**
- Incorporated skip connections into the architecture of a 3D Residual U-Net model to improve performance.
- Achieved a model accuracy of 99.2 % through various techniques and optimizations.
- Developed a machine learning mini project as part of a course. Github

Air Management System | *Java , Mongodb , JavaFx*   **January 2022**
- Developed a Java-based application for monitoring air quality in real-time.
- Implemented a sensor system that collects and stores real-time data into a database for further analysis and processing.
- Completed an application development mini project as part of a course. Github

Achievements

- **Achieved Global rank 158**: Global rank 158 in June Long Two 2022 Contest — CodeChef
- **Solved Issue of Manual Irrigation**: Implemented Remote Irrigation System Web Service Developed 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.

Leadership / Extracurricular

Prayaas Foundation	**Spring 2021 – Present**
	Senior Member

- Facilitated learning for underprivileged students through interactive teaching methods
- Increased student engagement by 64% through personalized attention and encouragement.Contributed to the development of the organization's fundraising events to support the education of students in need.
- Skills developed: Leadership, Communication, Teamwork, Problem-solving.