AVNISH KUMAR

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Education

Indian Institute of Technology(IIT), Bhubaneswar   **Odisha**
M.Tech in Computer Science and Engineering   *GPA: 7.79, 2023*
Coursework: Cloud Computing, Network System and Security, Cryptography, Advance Algorithm, Software Testing and Verification, Software Engineering, Digital Forensic, Machine Learning, and Data Analytics.

Technocrats Institute of Technology, Bhopal   **Madhya Pradesh**
B.E. in Information Technology   *GPA: 7.87, 2020*
Coursework: Operating System, DataBase Management System, Computer Network, Theory of Computation, Algorithm, Digital Logic Design, Computer Organization, and Architecture.

Experience

HCL Tech | Tech Lead
Data Center Energy Management Project   *February 2024 – Present*
- Developing the front end using React, focusing on responsive and user-friendly design.
- Building the backend with Node.js, ensuring robust and scalable server-side logic.

HCL Tech | Tech Lead
Smart Wi-Fi Project   *July 2023 – February 2024*
- Resolved critical errors in C language, including buffer overflows, memory leaks, infinite loops, and segmentation faults, significantly improving system stability.
- Developed and implemented essential functions, contributing to the overall functionality and performance of the Smart Wi-Fi system.
- Collaborated with cross-functional teams to ensure seamless integration and deployment of new features.

IIT Bhubaneswar
Teaching Assistant   *August 2021 – May 2023*
- Handled around 150 students in programming and data structures theory and lab classes.
- Instructed and evaluated around 120 students in Computer Networks theory and lab classes.

Projects

Location Estimation In Indoor Area(MTP) | Dr. Sudipta Saha
- Utilizing radio frequency waves to locate an accurate indoor location.
- This system will utilise the access pointer to calculate the device's receiver signal strength value..
- All of this experiment is being carried out on a Raspberry Pi..

Image Watermarking | Dr. Manoranjan Satpathy
- Hidden digital watermarking - hides an image within another image. Which is based on Python
- This project provides the good security and image trademarking issue.
- Analysing robustness of watermarked image against various attacks.

Library Management System | B.Tech Final Year
- This project based on HTML, CSS, Django and python, which manages books and the issued books efficiently.
- Students can self-register with this system. The administrator can lend them the desired book for a specified time period.

Technical Skills

Languages: C/C++, Python3, SQL,HTML,CSS ,JavaScript
Technologies/Frameworks: Django, React, MySQL, Open CV
Developer Tools : Machine Learning, numpy , pandas , deep learning, GitHub,GIT commands, Linux OS, Raspberry PI

Achievements

- Achieved 98.46% in GATE 2021 with AIR rank 1567.
- Solved more than 1000 coding problems on various platforms like Leetcode, GFG, Hackerrank.
- **Leetcode** : Avnishkumar123/

Interests

- Travelling   • Football   • Cricket   • Cooking