

Himanshu Pandey

GeeksforGeeks: himanshu2018iiitm

Github: github.com/himanshu435

Mobile: +919695669998

Email: himanshu2018iiitm@gmail.com

LinkedIn: Himanshu Pandey

EDUCATION

- Indian Institute of Technology (IIT)** Kanpur, India
Ph.D- Computer Science December 2024 - Currently
- Indian Institute of Information Technology (IIIT)** Gwalior, India
Integrated B.Tech+M.Tech - Information Technology; CGPA: 8.5 July 2018 - June 2023
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases
- City Children's Academy** Kannauj, India
Indian School Certificate (ISC) 94.5%

SKILLS SUMMARY

- Domain Knowledge:** Data Structures and Algorithms, Machine Learning, Database Management System(DBMS), OOPs, Computer Networks, Operating Systems, IoT, Interconnects
- Languages:** C++, Python, SQL, JAVA
- Frameworks:** Scikit, NLTK, TensorFlow, Keras, Matplotlib, SpringBoot, JWT
- Tools:** GIT, MySQL, Octave, Matlab, Latex, PostgreSQL, MongoDB, Scripting basics
- Platforms:** Linux, Web, Windows, Arduino, Raspberry, AWS, GCP
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- Sharda University** Offline
Assistant Professor January 2024 - December 2024
 - : Lectures on Design and Analysis of Algorithms, Linear Programming and Technical Writing and Communication
 - : FR Coordinator
 - : Guiding 8 B.Tech Final year students in their final projects.
- Bizongo** Hybrid
SDE Intern(Java Backend Developer) January 2023 - July 2023
 - : Building new api's and leading the backend deprecation.
 - : Authenticating the pre-implemented api's with jwt token.
 - : Resolved bugs in pre implemented Java backend codes in order to make the applications more robust and reliable.
- Bytelearn Edtech Ltd.** Remote
SDE Intern June 2022 - Sep 2022
 - : Implementing python script to automate general mathematical expressions and problems.
 - : Resolved bugs in pre implemented python codes in order to make the chatbot more robust and reliable.
- Creative Storm Ltd.** Remote
Technical Norman (May 2021 - June 2021) *Business Development Officer (June 2021 - December 2021)*
 - : Handled business to business related dealings and collaborations of the company.
 - : Solved and explained complex Data Structures and Algorithms related questions for candidates on the portal.

PROJECTS

- Optimization of repeater size and optimal number of repeaters in interconnects:** Optimization of repeater size and optimal number of repeaters in interconnects using genetic algorithms and using the best algorithm result to build ANN.
- Intrusion Detection using Machine Learning (Linear Regression, Logistic Regression, Decision Trees, Random Forests, XGBOOST, LSTM):** Build a network intrusion detector model capable of distinguishing between bad connections, called intrusions, and good normal connections and compared the accuracy, sensitivity of the previous built algorithms.
- Machine Learning Model Knowledge-based for GNR Interconnects (Neural Networks, Linear Regression, Interconnects):** Developed Machine learning model for Graphene nonoribbon (GNR). Conventional metallic interconnects face several serious challenges in aspects of performance and reliability. To address these issues, nanocarbon materials, including carbon nanotube (CNT) and graphene, were examined for interconnect applications.

PUBLICATIONS

- Research Paper:** Deploying and Analyzing Classification Algorithms for Intrusion Detection
- Research Paper:** Enhanced Hybrid Symmetric Cryptography for IoT Devices
- Research Paper:** Perception Analysis of Travelers Regarding India's Medical and Spiritual Tourism

HONORS AND AWARDS

- Received Best Paper Award at IEEE-IATMSI 2022 conference.
- Achieved a global rank of 218 in Codechef April Lunchtime
- Advanced Twice to Nationals in Smart India Hackathon organised by MHRD
- Achieved 3rd position in IoT challenge organised by IIT Bombay
- Achieved 1st position at Junior AASF ICPC.

POSITIONS OF RESPONSIBILITY

- Placement Representative at IIIT Gwalior.
- Organiser of IBSSC(IEEE Bombay Section Signature Conference)2021.
- Chairperson at ABV-IIITM IEEE Student Branch Gwalior since April 2019 to December 2021.
- Technical member at Students Activities Committee, IEEE Bombay Section
- Teacher at Student Gyan Movement, a social initiative to provide education to under privileged students.
- Head at Nukkad Natak, dramatics event under cultural fest Aurora 2020.