SHASHANK KUMAR UPADHYAY

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EDUCATION

Indian Institute of Information Techology, Allahabad **2021-07 - 2025-07**
Bachelor of Techology in Information Techonology GPA: 7.81(Till 6th Sem.) *Allahabad, U.P.*

Class XII (CBSE Board), Delhi Public School, Bokaro **2019-04 - 2020-04**
Percentage: 93.2% *Bokaro,Jharkhand*

RELEVANT COURSEWORKS

- Data Structures
- Computer Networks
- Database Management
- Object Oriented Programming
- Software Engineering
- Operating System
- Machine Learning
- Deep Learning

TECHNICAL SKILLS

Languages/Databases: C/C++, Java, Python, Javascript, NodeJs, MongoDB, SQL
Developer Tools: Linux, CLI, GitHub, VSCode, Intellij, Google Colab
Technologies/Frameworks: Machine Learning, Deep Learning

EXPERIENCES

Goldman Sachs **2023-07 - 2023-08**
Advanced Software Engineering Virtual Experience Program *Forage (Online)*

- Utilized Hashcat to crack a leaked password database, learned MD5 and bcrypt hashing algorithms, and conducted password policy assessment with security control recommendations.Certificate Link

PROJECTS

Network Design **2024-08 - 2024-12**

- Developed a Peer-Server-Peer network that distributes any file amongst all peers, with some initial distribution of chunks among them.
- Facilitated peer-server requests via UDP, maintained LRU-cache in server to improve performance, chunk transfers serviced via TCP

Social Media LINK **2024-01 - 2024-04**

- A web app like social media having features where user can post content, follow friends, can chat can also like and comment on posts of friends.
- Integrated authentication API for secure user login, password management, and account customization and user convenience.
- Developed frontend using React and recoil.
- Developed Backend using NodeJS(Express) and used database as MongoDB.
- **Tech-stack:** React.Js, MongoDB, Node.Js.

Game Development LINK **2024-01 - 2024-04**

- Built a maze-based graphic game using SDL in C++ with various treasure hunts and speed-ups.
- Used TCP sockets to connect clients with the server and assigned a different thread for communication with each client.

Advancing Cardiovascular Diagnosis :- Denoising and Feature Learning **2024-01 - 2024-04**

- Denoising and Feature Learning for Improved ECG Signal Classification.
- Hybrid neural network combining CNN layers with an LSTM network.
- Ideal for sequence processing tasks like ECG signal classification, leveraging both spatial((amplitude, shape of waveforms) and temporal features(sequence of events over time) for improved accuracy.

ACHIEVEMENTS

- Achieved a global rank under **5000** and secured **7th** position at IIIT Allahabad in the **Meta Hacker Cup 2024**
- **Coordinated** a large-scale hackathon on **Devfolio** for Gravity, the Technical Society of IIITA, with over **1000** participants

LANGUAGES

English **German** Certificate Link