

Kaushal Sharma

☎ (+91) 8278636415 | ✉ kaushaliitdel@gmail.com | 🌐 [kaushal-sharma-4018b5171/](https://www.linkedin.com/in/kaushal-sharma-4018b5171/)

Education

Indian Institute of Technology, Delhi

Delhi, India

BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

2018 - 2022

- CGPA: 7.2
- Courses: Computer Science, Calculus, Statistics, Data Structures, and Algorithms

RBSE, Class 12th

Delhi, India

SBS Memorial Public School

2016 - 2017

- Marks: 89.20%

Skills

Programming Skills:	JAVA, Python, Node.js, CSS3, React.js, C/C++, HTML5, SQL, MongoDB
Miscellaneous:	GitHub, MATLAB, Unity 3D, AutoCAD, Autodesk Inventor
Courses:	Data Structures and Algorithms, Machine Learning, Probability and Statistics, Linear Algebra

Experience

Athena Education

Gurgaon, India

FULL STACK DEVELOPER

Jun 2022 – Current

- Successfully developed and implemented a **full stack solution for student onboarding journey** on Delphi (Internal Dashboard)
- Developed **Python scripts** for data analysis, processing, and extraction of data insights
- **Designed and implemented MongoDB pipelines** for streamlining data flow and optimizing data processing and storage for improved performance.
- Designed and built an interactive Essay Analytics feature for efficient tracking of essay progress and performance **using React.js**
- Developed Check-in functionality in the internal portal, streamlining the scheduling and tracking process of meetings
- Worked **on integrating HDFC CC-Avenue payment gateway** into the Delphi platform for secure and seamless online transactions
- Supervised sprint planning, task management, story point estimation, task prioritization, and prompt resolution of blockers as the **Scrum Lead**

Tech-stack used: Node.js, React.js, Python, and MongoDB

Hora.ai

Gurgaon, India

BACKEND DEVELOPER

Dec 2021 - June 2022

- **Designed the backend** of an app for Collections Agents meant for tracking and managing transactions
- **Integrated a Whatsapp bot** with the Florence Capital app to enhance customer experience
- **Developed the Payment Reconciliation function** for ensuring the accuracy of **financial records** and managing transactions
- **Developed MongoDB pipelines** for automating a weekly tracking system of collections
- Collaborated with cross-functional teams to build the collections tracking system

Tech-stack used: Java, Spring Boot, Python, MongoDB

Hora.ai

Gurgaon, India

BACKEND DEVELOPER, INTERN

Jun 2021 -Aug 2021

- **Integrated Agora Platform** for seamless video conferencing and remote communication between teams & customers
 - **Scripted backed logic** for enabling key functions such as saving call records, submission of ratings and feedback, etc
 - **Automated NACH Form generation** process – expediting the completion of the task
- Awarded PPO for demonstrating excellent performance, dedication, and capabilities**

Academic Projects

SAR-Based Flood Mapping Using Deep Learning Models

(PROF. Manabendra Saharia, Civil Dept., IIT Delhi) FINAL YEAR B. TECH PROJECT

May 2021 - Nov 2021

- Created multiple baseline models, including **UNet, VGG-16, PSPnet, and LinkNet**, that were trained on SAR image data
- Utilized **ensemble methods for deep learning** to form a robust model that leveraged the strengths of the baseline models, enhancing the accuracy and reliability of flood mapping predictions
- Conducted extensive experimentation and fine-tuning to optimize the performance of the deep-learning models, ensuring accurate identification and mapping of flood-affected areas

SIMULATION ENVIRONMENT OF MCMOHANS RESTAURANT

(PROF. Mausam, CS Dept., IIT Delhi)

Mar 2021 - Apr 2021

- Conceptualized the use of **AVL Trees and Heaps** in a real-world problem of simulating the environment of Mcmohan's Restaurant
- **Implemented optimized algorithms** that utilized AVL Trees and Heaps to efficiently access and study statistics related to the customers, billing counters, and griddle operations
- **Developed a simulation environment** that accurately modeled the dynamics of a restaurant, including customer flow, queue management, and resource allocation

MODELLING OF FLIGHT TRIP PLANNER

(PROF. Mausam, CS Dept., IIT Delhi)

Apr 2021 - May 2021

- Conceptualized and designed the use of **Graphs and HashMap** to develop a flight trip planner that efficiently plans travels routes
- Utilized Graphs to represent the network of cities and flights, while HashMap was employed to store relevant information such as flight schedules and layover times.
- **Implemented Dijkstra's algorithm** to find the quickest way to travel between two cities, taking into account layover times and optimizing the overall trip duration

Position of Responsibility

Game Developer, DevClub

Game Development Club, IIT Delhi

Apr 2019 - Apr 2020

- Developed several engaging games, including **Tank-3D(Multiplayer), Chess, Rolling Ball: Maze to Solve, and Flappy Bird** using Unity-3D
- Played a significant role in the team project, **YDMM (Counter-strike game)**, by building characters and implementing animations for their movements, enhancing the overall gaming experience
- Successfully contributed to the growth and reputation of the Devclub by delivering high-quality game projects and actively participating in team discussions and brainstorming sessions

Extracurricular Activities

Publicity Activity Head

TRYST'20 (TECHNICAL FEST), IIT DELHI

2020

- **Spearheaded a team of 6 organizers**, overseeing external media management and public relations, resulting in heightened event visibility

Head Volunteer, Office of Career Services

SUPERVISED 20+ VOLUNTEERS TO ORGANIZE THE PROCESS

2019

- Mentored volunteers to conduct smooth pre-interview processes and placement interviews for the whole placement season of OCS

Fine Art and Craft Society

FACC CLUB, IIT DELHI

2019

- Represented Nilgiri Hostel in diverse artistic events, showcasing skills in charcoal painting and contributing to the Inter-hostel Charcoal Painting competition on the theme of 'Yin-Yang' among 13 hostels, BRCA, IIT Delhi.
- Actively participated in and played a key role in planning and designing the Inter hostel Sigil Wall Painting competition, fostering creativity and collaboration among 13 hostels.