

# OM MITTAL

## COMPUTER SCIENCE ENGINEER

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Portfolio: <https://unique-snickerdoodle-06d0d9.netlify.app/>



## EXPERIENCE

- ❖ **Software Developer Intern | IBM** (06/24– 07/24)  
During my IBM internship, where I was the project lead, I gained experience in user authentication, data preprocessing, and natural language processing. I also worked with machine learning for recommendation systems and built interactive web applications using Streamlit.
- ❖ **Machine Learning Intern | CodeClause, Pune** (08/23 – 09/23)  
Collaborated with the machine learning team to preprocess, clean, and curate datasets for model training, ensuring data quality and integrity. Gained hands-on experience in data visualization tools and techniques to communicate findings effectively
- ❖ **Social Work Intern | Sarv Sanskriti Jan Jagriti Abhiyan Samity, Sitarganj** (06/22 – 07/22)  
Developed a transformative computer literacy program for illiterate individuals, equipping them with essential computer skills. Continuously enhanced the program's impact through integrating new technologies and resources for an enriched learning experience.

## EDUCATION

- ❖ Computer Science Engineering | UPES, Dehradun CGPA: 8.64 | (08/21 – 07/25)
- ❖ XII (CBSE) | R.A.N Public School, Bilaspur 84.6% | 2021
- ❖ X (CBSE) | Shelley School, Sitarganj 85% | 2019

## ACADEMIC PROJECTS

- ❖ **SecureCompact | Encryption and Compression| Cryptography | Object Oriented Programming | C++**  
Developed SecureCompact with C++ amalgamation, featuring advanced algorithms like Huffman coding for compression and Caesar cipher for encryption. Expertly implemented result storage, generating Huffman-coded zip files and securely managing encrypted files/passwords, showcasing comprehensive skills in algorithmic design, software development, and data security.
- ❖ **Customer Segmentation Analysis | Data Analysis | Python and Streamlit**  
Executed Customer Segmentation Analysis employing K-means clustering, data preprocessing, and feature engineering in Python (NumPy, Pandas, Scikit-learn). Translated insights into compelling visualizations using Matplotlib and Seaborn
- ❖ **Field Fusion| React, Tailwind, Express, MongoDB, Mongoose**  
Designed a user-friendly platform for booking football ground slots with real-time availability, created functionalities for admins to manage bookings, including creation, viewing, and editing with validations.
- ❖ **Emotion detection | Convolutional Neural Network Python Google Colab**  
Developed an emotion detection system in Python using TensorFlow, Keras. Implemented a deep learning model for high accuracy in emotion classification. The project involved extensive model optimization, and visualization techniques to ensure robust performance.
- ❖ **Online Reservation System| Java-SQL Connectivity | Data Structure and Algorithms| Java and SQL**  
Designed and implemented an Online Reservation System, leveraging Java-SQL (JDBC) connectivity for seamless database interaction in Java, showcasing proficiency in software development, database management, and problem-solving

## POSITIONS OF LEADERSHIP

- ❖ **Project Lead | Software Developer Intern** (06/24– 07/24)  
Directed the development of a recommendation system, mastering user authentication, data preprocessing, NLP, and creating interactive web applications with Streamlit.
- ❖ **Team Collaborator | Machine Learning Intern** (08/23 – 09/23)  
Partnered with the machine learning team to preprocess, clean, and curate datasets for model training, excelling in data visualization tools and techniques for effective communication.
- ❖ **Program Innovator | Social Work Intern** (06/22 – 07/22)  
Designed and continuously improved a computer literacy program for illiterate individuals, integrating participant feedback and leveraging new technologies and resources to maximize impact

## CERTIFICATIONS AND ACHIEVEMENTS

- Round 2 Qualifier of the Flipkart Grid 5.0 - Software Development.
- Secured Rank 5 in All India Codekaze competition.
- Secured Rank 2 in Coding Competition Conducted by Microsoft Technical Community
- Microsoft Certified: Azure AI Engineer Associate | Completed Microsoft Azure-102 Certification Course

## TECHNICAL SKILLS

- Proficient in Java, Python, C, C++, and SQL, with strong analytical abilities.
- Experienced in machine learning frameworks, OOP principles, and operating system concepts for creating modular and maintainable code. Knowledgeable in Agile and Scrum methodologies.
- Possesses a solid foundation in HTML, CSS, and JavaScript.
- Familiar with blockchain theory, including smart contracts and decentralized applications (DApps), and experienced in implementing encryption and decryption algorithms.
- Developed scalable backend solutions REST APIs, and microservices architecture.
- Proficient in Machine Learning and Artificial Intelligence, with hands-on experience in supervised and unsupervised learning, natural language processing, deep learning, and model optimization techniques