



# Abhishek Singh Kushwaha

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## EDUCATION

- **IIT Bhilai:** B.Tech, Data Science & Artificial Intelligence Bhilai, Chhattisgarh
- **Modern Vidya Niketan:** CBSE Board, Class XII: 94% Haryana, India
- **Vidya Mandir Public School:** CBSE Board, Class X: 94.3% Haryana, India






## EXPERIENCE

- **Member at Meshery Community, CNCF** Jan'24 - Present  
Distinguished among 5,000+ Meshery contributors, secured one of 250 member positions. Delivered 4+ pull requests, 2 reviews, and a critical functionality in 3 weeks. Quickly learned Go and Jekyll, showcasing adaptability. Recognized by maintainers for impactful contributions, highlighting commitment to Meshery's progress.
- **Software Developer Intern at NETR.AI**  June'22 - November'22  
Collaboratively developed VR application for peripheral vision testing, leveraging C#, Unity, and Python, achieving 60% testing cost reduction and 90% machine cost decrease. Proficient in algorithm development and integration.
- **OpenLake Mentor IIT Bhilai**  May'22 - May'23  
Organised web development workshop, led hackathon, and inspired 100+ IIT Bhilai students through engaging sessions.



## SKILLS SUMMARY

- **Languages:** Python, Go, C++, JavaScript, Latex, Bash Scripting
- **Frameworks:** TensorFlow, PyTorch, Langchain, React, Node, Express, Bootstrap, Tailwind, Flask
- **Tools:** AWS, Docker, MongoDB, PostgreSQL, Firebase, Git, GitHub, Kafka, Nginx, Hadoop
- **Technical Skills:** Machine Learning, Data Analysis & Visualisation, Deep Learning, Computer Vision, Web Development, Competitive Programming (**Leetcode rating: 1526 (highest)**) , OOPS, Computer Networks, DBMS, DSA
- **Soft Skills:** Problem Solving, Analytical Thinking, Fast Learning, Team Management, Time Management

## PROJECTS

- **Reverse-Chain** 
  - Developed and implemented the Reverse Chain algorithm, as proposed in the paper "[Reverse Chain: A Generic-Rule for LLMs to Master Multi-API Planning](#)," to enhance the capabilities of Large Language Models (LLMs) in multi-API planning scenarios.
  - Leveraged technologies such as langchain, FAISS for retrieval, BERT embeddings from Hugging Face, and OpenAI API to orchestrate the end-to-end workflow, ensuring efficient and accurate planning across diverse application programming interfaces (APIs).
- **SoreTrek**  
  - Innovated an efficient inventory and sales management system with a user-friendly interface, leveraging visual data analytics for tracking sales, purchases, and inventory in real-time enhancing productivity.
  - Utilized Firebase (authentication) and Firestore (NoSQL database) for enhanced security and scalability. Implemented React hooks and Tailwind CSS for dynamic and visually appealing UI.
- **CloudPhysician** 
  - Created an innovative workflow utilizing CCTV footage to extract vital information from patient monitors, optimizing nurse-to-patient ratio and cost efficiency.
  - Integrated advanced technologies, including digital image processing, self-trained YOLO for segmentation, classifiers, and optical character recognition for accurate vital extraction. Used advanced concepts like, Threading, Data Structures & Algorithms to speed up the process.
- **Automatic Image Clustering** 
  - Python based image clustering project using face-recognition library, backed by C++ dlib library, to efficiently group images using the facial embeddings from the reference images.
  - Facilitating accurate identification and labeling of all relevant images featuring the same individual.

## HONORS AND AWARDS

- Mentee at **Amazon ML School**  November'23
- **Runner-up at the "iHack 2022" hackathon**  challenge on **Automatic Image Clustering**, organized by IIT Bhilai, IBITF, and Infineon Technologies as part of a three-member team. October'22

## POSITION OF RESPONSIBILITY

- **Coordinator of Data Science & Artificial Intelligence Club**, IIT Bhilai May'23 - Present
- **Team Head of DSAI Website Development Team**, IIT Bhilai July'23 - Present