

Yash Sharma

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Education

- **Bachelor of Technology in Computer Science and Engineering**
 - Indian Institute of Technology Mandi, Himachal Pradesh, India
 - Aug 2020 – Present
 - CGPA (after 6 semesters): 8.66/10
 - Relevant Coursework: Internet Security and Privacy, Deep Learning and its Applications, Algorithms and Data Structures, Database Systems, Computer Organization, Data Science, Probability and Statistics.
 - Responsibilities: Core Team Member, Kamandprompt, Programming Club of IIT Mandi (2021-2023) | Volunteer, Guidance & Counselling Service, IIT Mandi (2021-2022) | Volunteer, National Service Scheme, IIT Mandi (2021-2023)
 - **Exchange Student**
 - RWTH University, Aachen, Germany
 - Oct 2022 – Feb 2023
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Work Experience

Software Development Engineer Intern - Razorpay Software Pvt. Ltd. (Summer 2023)

- Customized open-source DMS for business needs, optimizing workflows, integrating backend APIs with admin access controls for smooth communication, and data integrity. Spearheaded the deployment on Razorpay's internal Kubernetes cluster, using Helm for streamlined orchestration and scaling.
- Implemented and streamlined backend APIs, along with comprehensive admin access controls, ensuring seamless communication and data integrity for 500+ internal users.
- Utilized data-driven analytical displays and real-time notifications to enhance decision-making and stakeholder communication, resulting in a 30% increase in productivity.
- Demonstrated expertise in containerization with secure Docker images, extensively tested through GitHub Actions, achieving 99.9% system resilience and effectively addressing security loopholes.

Student Research Assistant - RWTH Centre for Artificial Intelligence, Germany (Winter 2022-23)

- Spearheaded the development of AIStudyBuddy, an ingenious AI-powered study planning platform, leveraging Python and cutting-edge AI technologies.
- Pioneered the implementation of Multi-Valued Partial Order Planning (MvPOP) for optimizing individual study courses and tackling intricate problem-solving tasks.

- Demonstrated expertise in harnessing powerful libraries like cplex (IBM), networkx, docplex, and others to elevate platform functionality and performance, collaborating seamlessly within a dynamic, multidisciplinary team.
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Projects

Bosch's Age and Gender Detection (March 2022)

- Developed an innovative solution for real-time gender and age estimation from surveillance videos, using ESRGAN, ResNet9, YOLOv6, and Deepface. Demonstrated strong Python skills, collaborating with a team to optimize the pipeline, achieving accurate results, and presenting the project at Inter IIT Tech-Meet 10.0 for recognition. [Link](#)

AlgoDS Visualizer (Feb 2022)

- Developed an interactive web app for real-time visualization of sorting algorithms using JavaScript, HTML5, and CSS. [Site Link](#)

Racing Game AI (Hack36, Intracollege Hackathon, IIT Mandi)

- Created a car racing game using Python's pygame module and integrated libraries like PIL and numpy.
 - Implemented Reinforcement Learning algorithms with TensorFlow, PyTorch, and OpenCV to train AI agents and enhance their performance with a reward system. [Link](#)
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Skills

- **Programming Languages:** C + + , Python (most experience), Golang, JavaScript/TypeScript, C (some experience)
 - **IDEs and Programming Tools:** Visual Studio, Sublime Text, PyCharm, Goland, Postman, IntelliJ.
 - **Other Tools / Frameworks:** Git, MongoDB, MySQL, PyTorch, TensorFlow, Ember.js, Postgres, Kubernetes, Helm, Docker.
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Awards and Achievements

- Secured 2nd rank all over IIT Mandi in Fake-a-thon Competition (Fake face detection)
 - Secured 4th Position in Vision Arcadia all over IIT Mandi, a team-based competition on Robotics and Machine learning.
 - Secured a rank in top 10 in Inter IIT Tech-Meet 10.0 in Bosch's Age and Gender Detection Mid-Prep Event.
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Additional Information

- **Languages:** English (Fluent), Spanish (Intermediate)
- **Hobbies:** Open-source contributions, hiking, and photography.