

# Yash Sharma

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## Education

- **Bachelor of Technology in Computer Science and Engineering**
  - *Indian Institute of Technology Mandi*
  - *Aug 2020 - Present*
  - *CGPA: 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
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## Work Experience

### Software Development Engineer Intern - Razorpay Software Pvt. Ltd.

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

### Student Research Assistant - RWTH Centre for Artificial Intelligence

- *Led the development of an AI-powered study planning platform called AIStudyBuddy, leveraging Python and cutting-edge AI technologies.*
  - *Implemented Multi-Valued Partial Order Planning (MvPOP) to optimize individual study courses and tackle intricate problem-solving tasks.*
  - *Collaborated within a multidisciplinary team, harnessing powerful libraries like cplex (IBM), networkx, docplex, and others to elevate platform functionality and performance.*
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# Projects

## Bosch's Age and Gender Detection

- *Developed an innovative solution for real-time gender and age estimation from surveillance videos, utilizing ESRGAN, ResNet9, YOLOv6, and Deepface.*
- *Collaborated with a team to optimize the pipeline, achieving accurate results.*
- *Presented the project at Inter IIT Tech-Meet 10.0 and received recognition.*

## AlgoDS Visualizer

- *Developed an interactive web app for real-time visualization of sorting algorithms using JavaScript, HTML5, and CSS.*
- *Demonstrated strong Python skills through collaboration on optimizing the visualization pipeline.*
- *Participated in Hack36, an intracollege hackathon at IIT Mandi.*

## Racing Game AI

- *Created a car racing game using Python's pygame module.*
  - *Integrated libraries like PIL and numpy to enhance the game experience.*
  - *Implemented Reinforcement Learning algorithms with TensorFlow, PyTorch, and OpenCV to train AI agents and improve their performance.*
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# Skills

- **Programming Languages:** C + + , Python, Golang, JavaScript/TypeScript, C
  - **IDEs and Programming Tools:** Visual Studio, Sublime Text, PyCharm, Goland, Postman, IntelliJ
  - **Databases and Frameworks:** MongoDB, MySQL, PyTorch, TensorFlow, Ember.js, Postgres, Kubernetes, Helm, Docker
  - **Version Control:** Git
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# Awards and Achievements

- *Secured 2nd rank all over IIT Mandi in the 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*
  - *Ranked in the top 10 in the Inter IIT Tech-Meet 10.0 in the 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*