

# URGYAN NURBOO

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## TECHNICAL SKILLS

**Languages and Database:** C/C++/Python/Java/MySQL  
**Web Technologies and Tools:** HTML, CSS, PHP, JavaScript, React.js, Bootstrap, Git, Matlab  
**Coursework:** Data Structures and Algorithms, Database Management Systems, Object Oriented Programming, Operating Systems, Machine Learning, Artificial Intelligence and Data Analytics

## PERSONAL PROJECTS

- Ladakh Bike Rental Management System** [GitHub](#)  
*Technologies Used:* HTML, CSS, JavaScript, PHP, MySQL Bootstrap
  - Developed a bike rental platform handling bookings and streamlining operations for both users and admin.
  - Created a comprehensive admin panel for managing user accounts, vehicle listings, bookings, and queries, significantly improving workflow efficiency. Implemented user authentication and authorization features for secure access and integrated search functionality for easy bike discovery.
  - Improved operational efficiency by **30%** through streamlined database design and performance optimization.
- Enhancing Image Quality in Photoacoustic Tomography**  
*Technologies Used:* Python, TensorFlow, UNet, VGG19
  - Developed deep learning models for artifact removal in Photoacoustic Tomography (PAT) images.
  - Achieved **92%** model accuracy and a structural similarity index (SSIM) of **0.993** with optimized model.
  - Used data augmentation techniques to enhance model generalization and performance.
- N-Queens Puzzle Solver Visualizer** [Live](#) / [GitHub](#)  
*Technologies Used:* HTML, CSS, JavaScript
  - Developed an interactive tool designed to solve the N-Queens problem, enabling users to specify the board size(N) and observe step-by-step algorithms in action. Included a log feature tracking algorithm progress for detailed insights
  - Implemented visual representation of backtracking algorithm for the understanding of complex algorithms.
  - Demonstrated effective user-friendly interface design, leading to a **25%** increase in user interaction

## EDUCATION

- Indian Institute of Information Technology, Allahabad** 2024  
*Bachelor of Technology in Information Technology* CGPA: 8.19
- Maharaja HariSingh Agriculture Collegiate School Nagbani, Jammu** 2019  
*Central Board of Secondary Education - Intermediate* Percentage: 90
- Maharaja HariSingh Agriculture Collegiate School Nagbani, Jammu** 2017  
*Central Board of Secondary Education - High School* CGPA: 10.0

## ACHIEVEMENTS

- Qualified **GATE CS 2025** Exam 2025
- Participated in Google KickStart Round F (**Rank 4343**) 2021
- Solved **800+** problems on various coding platforms: [Codechef](#) | [Leetcode](#) | [Codeforces](#)
- Cleared National Defence Academy (NDA) Exam and Air Force Common Admission Test(AFCAT) 2019, 2024

## POSITIONS OF RESPONSIBILITY

- Headed the Creatives Department** for Effervescence Fest, managing design and branding. 6 months
- Football Captain** Represented the college at the Inter IIIT Sports Meet in football 2023