

# YASH ARYA

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## Education

**Motilal Nehru National Institute of Technology Allahabad**

*Master of Computer Applications, CPI: 8.37*

**August 2023 – Present**

*Prayagraj, Uttar Pradesh*

**Shyam Lal College, University of Delhi**

*Bachelor of Science Honours (Mathematics), CPI: 8.46*

**October 2020 – May 2023**

*Delhi, India*

**Rajkiya Pratibha Vikas Vidyalaya Surajmal Vihar**

*Class XII (CBSE), Percentage: 93.6*

**April 2019 – March 2020**

*Delhi, India*

## Projects

**HACKALYZE** | *Node.js, Express.js, MongoDB, React.js, Google Gemini, Tesseract OCR*

**March – April 2025**

- Built an AI-powered hackathon judging platform that reduced submission evaluation time by over 95%.
- Configured OCR and Gemini to analyze 4 diverse pitch formats audio, video, image, and text file to generate scores.
- Designed a platform with 3 interfaces (student, teacher, admin) and developed a rubric-based scoring system with custom parameters and weights for AI and manual evaluation.
- Documented APIs using Swagger, enabling seamless integration with other third party hackathon platforms.

**FACE ID VERIFICATION APP** | *Python, Kivy, TensorFlow, OpenCV, Scikit Learn*

**October – November 2024**

- Developed a Python application to verify face IDs by training Siamese Neural Network (SNN) achieving 90% accuracy.
- Implemented shared-weight CNN with L1 distance similarity metric for pairwise image comparison.
- Trained the model using binary cross-entropy loss and Adam optimizer for optimal accuracy and efficiency.

## Research Experience

**Researcher & Co-Author | Dr. Amit Biswas, CSED, MNNIT Allahabad**

**May – June 2025**

- Co-authored and submitted a research paper proposing a blockchain-based IPO allocation framework with two-layer architecture addressing transparency, fairness, and auditability issues in traditional systems.
- Proposed a two-layer consensus mechanism, registrar rating for cluster selection, and a Proof of Honesty (PoH) consensus algorithm to penalize dishonest registrar behavior and reward honest nodes during block proposals.
- Designed smart contract and implemented through solidity on Ethereum network with SEBI and registrar access, using 4-party cryptographic seeds to trigger lottery during oversubscription of IPO.
- Simulated performance on 30-node networks across 500 IPO rounds; results showed 99% Jain's Fairness Index and strong resistance to dishonest behavior compared to PoW, PoS, and PoK.

## Relevant Coursework

- |                                  |                              |                                      |
|----------------------------------|------------------------------|--------------------------------------|
| • Data Structures and Algorithms | • Database Management System | • Object Oriented Programming System |
| • Operating System               | • Computer Networks          | • Software Engineering               |

## Technical Skills

**Languages:** C, C++, Python, Java, JavaScript, Solidity

**Development:** Node.js, Express.js, Tailwind CSS, MongoDB, SQL, HTML, React.js, LaTeX, Git, Neural Networks

**Other Skills:** Competitive Programming, Postman, Web Design, Full-Stack Web Development

**Soft Skills:** Teamwork, Leadership, Management, Communication

## Achievements and Activities

- Finalist in Morgan Stanley's Code to Give Hackathon:** Built Hackalyze, ranked among top 8 teams.
- Reached Guardian level on LeetCode** with a peak rating of 2160, ranking in the top 1.2% globally.
- Achieved Expert rank on Codeforces** with the highest rating of 1620, placing in the top 20% globally.
- All India Rank 32** in NIT MCA Common Entrance Test (NIMCET) 2023.
- All India Under 40** in International Chemistry Olympiad of Metropolises 2019.

## Coding Profiles

LeetCode: Yash\_Arya2003

Codeforces: Yash\_Arya

GeeksforGeeks: yasharya82003