

# Ojasw Kant

COMPUTER SCIENCE AND ENGINEERING STUDENT  
AT  
SHIV NADAR INSTITUTE OF EMINENCE

Computer science and engineering undergraduate student eager to practice and work on ML, computing and autonomous systems. Seeking an opportunity to gain experience, refine skill-set and expand technical knowledge.

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## EDUCATION

**Bachelor of Technology in**  
Computer Science and Engineering | 2024-28  
*Shiv Nadar Institute of Eminence (SNIoE)*

- CSE major pursuing a mathematics minor with a bias to courses in ML
- Member American Society of Mechanical Engineers (ASME)

**12<sup>th</sup> Standard Education | 2023**

- Birla Vidya Niketan (BVN)*
- CBSE Affiliated school
  - Active member Atal Tinkering Lab

## COMPETITIVE EXPERIENCE

**NIDAR 2025**

*Team J.E.D.I*

- Made a fully autonomous multi-drone SAR (Search And Rescue) system as a part of the disaster management problem.
- Computer Vision model training, post-processing and optimization for deployment
- Autonomy architecture and implementation
- CAD and analysis, fabrication and assembly

**ASME EFx India 2024 & 2025**

*IAM3D Team*

- Made a 3D-printed quad-copter (an Unmanned Aerial Racing Cargo Vehicle) as a part of the IAM3D team (2024), 3D-printed resource collecting rover (2025)
- Competed in *EFx India* and scored 3<sup>rd</sup> national position as a team (2024)
- Contributed to the team for - Design for Additive Manufacturing (DFAM), drone tuning and flight analysis, control systems design

**Smart S.N.U. Hackathon (SSH)**

*Team MORNIS*

- CV based trash detection system that will route nearby garbage trucks to locations based off of trash volume and current truck location
- Semantic segmentation with custom method to approximate trash volume
- Qualified to participate in **SIH**

**Inter-school competitions (NCR)**

- \root\20 2<sup>nd</sup> place design winner | October '20
- *CODEx* host and design lead (BVN) | August '21
- *Syntax V6.1* (DPS International, Saket) 1<sup>st</sup> place solo gaming | August '22
- Participant of *YOUTH IDEATHON* | 2022

## PROJECTS & HOBBIES

**3D Printing and Rapid Prototyping**

- Self assembly of a Prusa i3 mk2s
- 3D designing of parts and models to print
- Analysis of prints using various methods

## GETTING OFF THE GROUND

### Soft skills

- C, Python, HTML, CSS
- Mounted electronics, on-board computing
- Machine Learning, Computer Vision
- DSA, Data Sorting, analysis
- Control systems design, implementation
- FEA, Generative design, topology optimization

### Hard skills

- 3D printing and processing
- Designing for CNC machining
- Electromechanical assembly of robotic components

### Working on

- Upcoming project for hackathon; Multi-modal context engine