

# Balveer Singh

UGC-NET Qualified | Visual SLAM Researcher and 3D Artist



## EXPERIENCE

### Software Development Intern — IIT Bombay, Mumbai

Aug 2021- Jul 2022

- contributed to open-source project [Project UDAAN](#) (enables translation of all Indian languages), Akshar Anveshini
- built tools like LEAP OCR, Udaan Translation Tool
- integrated ML models with the Web Interface using Django

## EDUCATION

### Chandigarh University, Gharuan

#### M.E in Artificial Intelligence & Machine Learning (8.4 CGPA)

Aug 2022 - June 2024

- Published two Conference Papers on Visual-SLAM
- Research thesis on “YDM-SLAM: YOLOv8-powered Dynamic Mapping of environment using ORB-SLAM3”

### Baba Banda Singh Bahadur Eng. College, Fatehgarh Sahib

#### B.Tech in Computer Science & Engineering (7.5 CGPA)

Aug 2017 - Aug 2021

- opened mechatronics & IoT lab
- Taught & built projects with a team of 22 students for
- worked on self-improvement

### Nankana Sahib Public School, Fathgarh Jattan

#### High School

2015 - 2017

- Physics, Chemistry, Mathematics
- 10th: 82%, 12th: 70%

Machhiwara Sahib,

Ludhiana, Punjab, IN 141115

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[LinkedIn](#) | [GitHub](#) | [Publication](#)

## Letter of Recommendation

 [LOR\\_Balveer\\_IITB.pdf](#)

## SKILLS

Python, C++, OpenCV, Django, Linux, Git, HTML, CSS, Pandas, Javascript, ROS, 3D

## Coding Profile

[HackerRank](#), [GeeksForGeeks](#)

## Soft Skills

Team Building, Leadership, Event Planning

## Certificates

[GeeksForGeeks](#), [Coursera](#), [ISRO](#)

## PROJECTS

1. YDM-SLAM: YOLOv8-powered Dynamic Mapping of the environment using ORB-SLAM	Feb 2024- Apr 2024 <a href="#">GitHub</a>
2. Leap OCR & UDAAN Translation Tool (Web-Application) (Contributed to the initial development of both tools during an internship at IITB)	Aug 2021 - July 2022 <a href="#">UDAAN Tool</a> , <a href="#">LEAP</a>
3. Mechatronics Based Projects (Aqua Serving Robot, Facial Recognition-based door, Hand Sanitizer, etc.)	Aug 2018- April 2021 <a href="#">List of Projects</a> , <a href="#">YouTube</a>
4. Alpha-Zone News Website	Aug 2022 - <a href="#">Github</a>