

Balveer Singh

“Actively working on dynamic instance segmentation in ORB-SLAM.”

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 (8.62 CGPA)

Aug 2022 - present

- Research Area: Feature-based Visual SLAM
- learning Computer Vision by implementing algorithms

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](#) | [Portfolio](#)

Coding Profile

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

SKILLS

Python, C++, OpenCV, Django,
Linux, ROS (*learning*), Git

Soft Skills

Team Building, Leadership,
Event Planning

Letter of Recommendation

 [LOR_Balveer_IITB.pdf](#)

LANGUAGES

English, Punjabi, Hindi

Bug Bounty

GeeksForGeeks - [Certificate](#)

PROJECTS

1. YDM-SLAM: YOLOv8-powered Dynamic Mapping of the environment using ORB-SLAM	Feb 2024- Apr 2024 GitHub
2. Leap OCR & UDAAN Translation Tool (Contributed to the initial development of both tools during an internship at IITB)	Aug 2021 - July 2022 UDAAN Tool , LEAP
3. 10+ Robotics & Mechatronics Based Projects (Aqua Serving Robot, Facial Recognition-based door, Hand Sanitizer, etc.)	Aug 2018- April 2021 List of Projects , YouTube
4. Smart Facial Recognition Attendance System	Sep 2020 - June 2021 GitHub