

Tanmay Sachchidanand Ghosh

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Education:

- Trinity College Dublin** *Sept 2025 - August 2026*
The University of Dublin, Ireland
Master's in Computer Science - Intelligent Systems
Current Courses: Advanced Software Engineering, Information Retrieval and Web Search, Machine Learning, Knowledge and Data Engineering, Research and Innovation, Data Visualization.
- Marathwada Mitra Mandal's College of Engineering, Pune, India** *August 2019 - April 2023*
Affiliated with **Savitribai Phule Pune University (Pune University)**
Bachelor of Engineering, Information Technology (Honours in Data Science) | **CGPA: 9.12/10 (Honours)**

Skills:

- Programming:** Python, Java, C++, Javascript (ReactJS)
 - ML/DL:** YOLO and Vision Models, LLMs, Tensorflow, Hugging-Face, Sklearn
 - System and Tools:** Git, Jenkins, Confluence, Jira, FastAPI, AWS, Azure, Linux/Unix
 - Concepts:** System Design, Data Structures & Algorithms, Distributed Systems, REST APIs, CI/CD
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Experience:

Actin Technologies - AI-ML Engineer

March 2024 – July 2025

- Designed and deployed** a real-time computer vision safety system using YOLOv8 and FastAPI, **reducing workplace hazards by 60%** through automated alerting and compliance tracking.
- Developed** an OCR-based Automated Meter Reading solution using deep learning, **achieving 96% accuracy and cutting manual work by 2 hours daily**.
- Built** a Retrieval-Augmented Generation (RAG) document Q&A platform using **Mistral-7B** and **LangChain**, **reducing query response times by 40%**.
- Engineered** an automated invoice processing system with a Vision-Language Model (VLM), **saving 70% manual data entry time**.
- Led** a team of 5 interns, reviewed code, managed sprints, and delivered production-ready features on schedule while ensuring quality and performance.

Privacera - Intern - Software Developer

October 2023 – February 2024

- Contributed** to the end-to-end SDLC of enterprise-grade SaaS products with Java and Spring Boot, ensuring high code quality through automated testing and CI/CD pipelines.
 - Resolved** client issues and implemented new feature enhancements, improving customer satisfaction scores by 20%.
 - Collaborated** with cross-functional teams using **Jira**, **Git**, and **Jenkins**, ensuring smooth deployments and version control.
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Academic Projects:

Explicit Image and Malicious URL Detection

- Spearheaded a project on Developing a hybrid ML system using YOLO and Random Forest to detect explicit content and malicious URLs.
- Automated** content moderation for social media pipelines with a custom dataset and image-based detection.

Movie Recommendation System

- Implemented a **content-based filtering model** using Cosine Similarity to deliver personalized recommendations.

Criminal Database Management System

- Designed a **role-based access control (RBAC)** backend with secure data visualization and CRUD operations.
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Publications:

- Title: "Malicious URL and Explicit Image Detection for social media platforms: A hybrid approach using Skin Tone Analysis, YOLO, and Random Forest"
https://ijirt.org/publishedpaper/IJIRT172831_PAPER.pdf | Lead Researcher and Co-Author

Awards and Participations:

- Member of Trinity College's Boxing Club and Rifle Club.
- Certificate of Appreciation* – Actin Technologies (Consistent Performance)
- Most Unique Project Idea of the Year* award for the project "Explicit Image and Malicious URL Detection"
- Secured Department "Topper of the Year" award in the college's third year.
- Department coordinator of training and placement cell of the college in the final year of undergrad.
- Secured third 3rd position in UDAAN Model Development (inter-college competition).

Hobbies and Interests:

- Boxing | Trekking | Hiking | Gym | System Design | Cloud Infrastructure