



Subhajit Ghosh

Work : Padua, Italy

Email: mastersubhajit@icloud.com

Website: <https://github.com/mastersubhajit>

WhatsApp Messenger: +918274921319

LinkedIn: <https://www.linkedin.com/in/mastersubhajit>

Passport: W5226482 **Work permit:** Italian **Gender:** Male **Date of birth:**

12/10/2002 **Place of birth:** Arambagh, India **Nationality:** Indian

ABOUT ME

AI researcher and cybersecurity enthusiast with hands-on experience in building and evaluating LLMs, intrusion detection systems, and blockchain-integrated monitoring platforms. Recognized for research excellence, securing awards and filing patents in applied AI. Skilled in deploying scalable AI solutions and conducting impactful academic research. Seeking roles where innovation and real-world problem solving intersect.

EDUCATION AND TRAINING

[01/08/2021 – 30/06/2025]

Bachelor of Technology (B.Tech)

University of Engineering and Management, Kolkata www.uem.edu.in

City: Kolkata | **Country:** India | **Level in EQF:** EQF level 6

WORK EXPERIENCE

MIDAS: Multimodal Digital Media Analysis Lab, Indraprastha Institute of Information Technology

City: New Delhi | **Country:** India

[20/04/2025 – Current]

Research assistant in university

- Designed advanced multimodal image generation pipeline using open source models.
- Created reproducible datasets and documentation for academic use.
- Supported LLM fine-tuning across open-source collaborations.

SKILLS

Python | PyTorch | Tensorflow | write scientific publications | NLTK | Scikit-learn | Pandas | Hugging Face | Docker | Git | Linux | Kaggle | Google Cloud | Microsoft Azure | Machine learning | LLMs | NLP | Gen-AI | RAG | BERT | Hypothesis testing | Data Analysis

PROJECTS

[10/11/2024 – 03/05/2025]

OPS: Overlapping Pairwise Summarization

1. Designed recursive summarizer exceeding GPT-4 performance on BoookScore.
2. Deployed using Vertex AI for book length summarization.

[11/09/2024 – 10/05/2025]

Pasha: A Blockchain Enhanced Maritime Surveillance System

1. Developed decentralized ship detection system identifying 98% more dark ships.
2. Reduced failure risk by 96% via resilient network architecture using LoRaWAN.

[15/08/2024 – 02/02/2025]

MITHEM: Multi-label Imbalanced Text Handling using Ensemble Methodology with Application to Biomedical Data Classification

1. Evaluated model performance across 8 benchmark datasets: MIMIC-III, BioASQ, PubMed RCT, Medline, Clinical Trials, OHSUMED, PMC-Patients, and CORD-19.

2. Outperformed traditional classifiers (BR, CC, BP-MLL, MLCCE, SVM, DT, RF) in accuracy, AUC-ROC, and F1-score, demonstrating robust generalization.

PATENTS

[01/03/2025 – 29/04/2025]

Predictive AI Tool for HR Retention

UK Design Patent Grant : 6433262

HONOURS AND AWARDS

[13/05/2025]

Vice Chancellor’s Award: Best Scientific Mind 2025 Awarding institution: University of Engineering & Management, Kolkata

[12/02/2023]

Best Innovation Award 2022 Awarding institution: India International Science Festival 2022