

# Anshika Tyagi

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**Summary** — Innovative and dedicated B.Tech student specializing in Industrial Internet of Things (IIoT) with a strong background in AI, and cybersecurity. Passionate about leveraging technology for social impact.

## Skills

- Python
- Java
- Cybersecurity
- AI & Machine Learning
- Flutter

## Experience

### Cybersecurity Intern

1st Jul 2024 – 5th aug 2024

- Worked on AI-based threat intelligence
- predictive security systems
- and practical cybersecurity implementations

## Education

### Vivekananda Institute of Professional Studies - Technical Campus

2022–2026

Bachelor of Technology in Industrial Internet of Things

Current GPA: 9.190/10

## Projects

### Gesture Controlled Wheelchair using Arduino

2024

- Designed a wheelchair prototype controlled via hand gestures using MPU6050 sensor.
- Implemented safety alerts using ultrasonic sensors and an ESP32 module.
- Integrated wireless communication for real-time control.

### AI-Based Threat Intelligence and Prediction System

2024

- Developed a machine learning model using a Kaggle dataset to detect cyber threats.
- Completed under a Cybersecurity Internship at IIT Guwahati.

### Fake News Detection System

2025

- Built a text classification model to detect fake news articles.
- Implemented using Python, Scikit-learn, and NLP techniques.

### YOLOv12 Object Detection on UAV Images

2025

- Trained and fine-tuned the YOLOv12 model on drone imagery for object recognition tasks.
- Applied data augmentation and bounding box annotation.

### PCOSense – An Integrated Health Monitoring System for PCOD/PCOS

2025

- Developed a hybrid hardware-software system combining a wearable device and a Flutter-based mobile app to assist women with PCOD/PCOS.
- The wearable device monitors real-time health metrics such as temperature, blood pressure, pulse rate, and step count.
- The Flutter app features:
  - **Meri Sakhi Chatbot** – Powered by Gemini API for emotional support.
  - **Menstrual Calendar** – Manages and tracks cycles.
  - **Progress Report** – Tracks daily health updates.
  - **Ayurvedic & Homeopathy Section** – Doctor-recommended treatments.
  - **Yoga Section** – Recommends poses based on health issues.
  - **Interactive Games** – Jumble word puzzles for PCOD/PCOS education.
- Designed to empower women with accessible, holistic, and personalized health support.

## Research Papers

- **Role of Women Researchers in Advancing AI for SDGs** – Analyzed contributions of women in computing and electronics to AI-driven Sustainable Development Goals (SDGs). Highlighted trends, challenges, and proposed recommendations for inclusive innovation.
- **AI-Based Threat Intelligence and Prediction System** – Developed as part of a cybersecurity internship; utilized ML models on threat datasets to predict and mitigate cyberattacks.
- **Bridging the Gap Between Machines and Humans: Exploring Industry 4.0 vs. Industry 5.0** – Submitted, Under Review. A comparative study on the evolution of industrial revolutions focusing on the shift from automation to human-centric intelligent systems.