**SUBHRA SAMEER DASH  
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**PROFESSIONAL SUMMARY**

Driven and innovative Computer Science undergraduate with hands-on R&D experience in Artificial Intelligence and Computer Vision at Philips. Proven ability to develop and implement machine learning models, from OCR solutions to AI-IoT systems. Seeking to leverage expertise in Python, OpenCV, and Deep Learning to contribute to a challenging Internship role in AI/ML.

**EDUCATION**

Gandhi Institute for Technological Advancement | Bhubaneswar, Odisha

Bachelor of Technology in Computer Science (AI major) | Expected May 2027

**SKILLS**

| Category | Skills |
| --- | --- |
| Programming Languages | Python, Java, C++, C, JavaScript |
| AI/ML Frameworks & Libraries | OpenCV, Scikit-learn, TensorFlow, PyTorch |
| AI/ML Concepts | Deep Learning, Machine Learning, Computer Vision, OCR, LLMs, Prompt Engineering, Neural Networks |
| Web Technologies | React.js, Node.js, Express.js, HTML, CSS |
| Developer Tools & Platforms | Git, GitHub, Linux |
| Cybersecurity | Kali Linux, Ethical Hacking Concepts |

**EXPERIENCE**

**Philips | Bengaluru, India**

**Research and Development Intern | June 2024 – August 2024**

* Engineered a novel Optical Character Recognition (OCR) model using Python and OpenCV to automate UI element verification within the Pyoneer Automation framework.
* Developed an AI-driven feature comparison model to accelerate design validation, reducing manual testing time for new product features by an estimated 15%.
* Collaborated with the IGT System MoS R&D team to integrate AI solutions, contributing to the acceleration of product development and design automation.

**Tinkers Lab, IIT Hyderabad | Hyderabad, India**

**AIOT Intern | December 2023 – January 2024**

* Designed and prototyped a voice- and vision-controlled humanoid robot for home automation, integrating IoT appliances with ESP32 microcontrollers and computer vision algorithms.
* Implemented embedded C/C++ logic for real-time sensor data processing and motor control, enabling autonomous navigation and task execution under the guidance of IIT Hyderabad mentors. 21

**Neuz Technologies | Remote**

**Web Developer Intern | May 2023 – July 2023**

* Contributed to the development of a client-facing web application using the MERN stack (React.js, Node.js, Express.js).
* Developed and styled responsive UI components from Figma mockups, ensuring cross-browser compatibility and a seamless user experience.

**PROJECTS**

**AI-Driven Home Automation Humanoid**

* Built a humanoid automation system featuring voice and vision-based controls. Implemented a real-time object detection module using OpenCV to enable the humanoid to identify and interact with specific household items, integrating IoT appliances with microcontroller logic.
* **Technologies: Python, OpenCV, IoT, ESP32**

**ML Model Evaluator**

* Created a comprehensive model evaluation tool in Python using Scikit-learn and Matplotlib. 31The tool enables rapid assessment of classification models through automated cross-validation, confusion matrix generation, and ROC curve plotting with hyperparameter tuning.
* **Technologies: Python, Scikit-learn, Matplotlib**

**LEADERSHIP & EXTRACURRICULAR ACTIVITIES**

**Founder, Neurotech Hackathon Club, GITA | 2023 – Present**

* Founded a university club of 50+ members to promote innovation in technology; organized and led two major hackathon events, fostering a collaborative learning environment.

**Campus Ambassador, E-Cell, IIT Bombay | 2024**

* Promote entrepreneurial events and initiatives from IIT Bombay to a campus-wide audience, driving participation and engagement in innovation challenges.

**Student Member, TiE Bhubaneswar | 2023 – Present**

* Assist in outreach and event coordination for a global non-profit dedicated to fostering entrepreneurship, connecting with local startups and industry leaders.

**CERTIFICATIONS**

* AI & Machine Learning: Deep Learning (NPTEL, IIT Ropar), Intro to Machine Learning (NPTEL, IIT KGP), AI Search Methods (NPTEL, IIT Madras), AI with Python (E-Cell, IIT Madras)
* Programming: Python for Mache Learning (Udemy), The Complete Python Bootcamp (Udemy) 41
* Professional: Startup & Entrepreneurship (E-Cell, IIT Madras) 42