

# Jigyasu

Homepage: [jgyasu.github.io](https://jgyasu.github.io)

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## EDUCATION

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- National Institute of Technology Agartala** Agartala, India
  - Bachelor of Technology - Electronics and Instrumentation Engineering* Aug 2023 - Present
  - Relevant Courses: Introduction to Programming, Mathematics - I, II, Machine Learning\**
  - \*Stanford Online*

## SKILLS SUMMARY

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- Languages:** Python, C++, JavaScript
- Frameworks:** P5, Processing, NumPy, Scikit, Pandas, Matplotlib
- Tools:** GIT, GitHub Pages, HTML, CSS, HuggingFace
- Platforms:** Linux, Web
- Soft Skills:** Public Speaking, Technical Writing

## EXPERIENCE

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- AI Institute, University of South Carolina** Remote
  - Research Intern* May 2024 - Present
    - AI-generated Content Detection:** Collaborating with the research team in building a watermarking model for AGCD; responsible for creating the interface and running tests
    - HuggingFace for the BERT and Llama Models:** Implemented models like BERT and Meta's Llama 3-8B using k-bit quantization and created an interface using Gradio and HuggingFace Spaces

## PROJECTS

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- The World Revolves Around You: Controlling a Particle System Mimicking Bird Flocking Behaviour through Hand Gesture Control:** A browser-based new-media art installation that explores the intersection of human-computer interaction and particle system animation. Tech: JavaScript, P5.js, ML5.js (July '24)  
<https://jgyasu.github.io/the-world-revolves-around-you>
- Fileaway: A Python Library to Sort Messy Folders:** Built a tool to automate the decluttering of the folders on the computer using os and sys module, easing file browsing experience; project published on PyPi. Tech: Python, PyPi (Sept '22)  
<https://pypi.org/project/fileaway>

## PUBLICATIONS

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- Jigyasu and Shankar, H.:** "The World Revolves Around You: Controlling a Particle System Mimicking Bird Flocking Behaviour through Hand Gesture Control" [ResearchGate Preprint](#) (2024)

## HONORS AND AWARDS

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- Stood 3rd amongst the first-year students in the college-wide competitive programming contest, CP Titans 4.0
- Team stood 2nd in the college-wide competitive programming contest, The Game of Codes
- Team selected in the college round of the Smart India Hackathon, 2023
- Represented NIT Agartala at the IIT Guwahati's Parliamentary Debates
- Stood as the runner-up in Policy Debate organized by CSS in Aayam 9.0

## VOLUNTEER EXPERIENCE

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- Public Relations Lead at SPIC MACAY Heritage Club** NIT Agartala, India
  - Helped organize a 17-day long event, ensured smooth communication between stakeholders.* Dec 2023 - April 2024
- Campus Ambassador at GeeksforGeeks** NIT Agartala, India
  - Raised awareness amongst students about GeeksforGeeks as a Computer Science portal.* Dec 2023 - April 2024
- Event Manager (Tier - II) at Board of Technical Council** NIT Agartala, India
  - Acted as a member of the Media Team during the annual technical and cultural fests.* March 2024 - March 2024