

# Ankit Roy

Email : royankit11@gmail.com

Mobile : 860-712-2969

LinkedIn : <https://www.linkedin.com/in/ankit-roy-615a04233/>

GitHub: [github.com/royankit11](https://github.com/royankit11)

Atlanta, GA

## EDUCATION

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- **Georgia Institute of Technology** Atlanta, GA  
*BS in Computer Science; GPA: 4.00* Aug 2023 – May 2026
  - **Relevant Coursework:** Object-Oriented Programming, Data Structures and Algorithms, Objects and Design
  - **Tech Lead at GT iOS Club:** Guided and empowered a dynamic team of 20 throughout a semester-long journey to develop and present an iOS application.

## EXPERIENCE

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- **Sutherland Global** Pittsford, NY  
*Software Engineer Intern* Jan 2023 - Present
  - **Architecture:** Designed, built, and tested a Visual Studio Code extension, enhancing developer productivity.
  - **HTML, CSS, and Node.js:** Created frontend using HTML and CSS, and built the backend with Node.js.
  - **Docker:** Developed containerized environments to scale the application.
  - **Impact:** IDE extension is actively utilized by hundreds of developers across Sutherland and their clients.
- **Cornell University** Ithaca, NY  
*Research Intern* May 2022 - Jan 2023
  - **Parser:** Created a parser using C++ and Bison that would serve as an environment to test optimization theory.
  - **Algorithms:** Developed an algorithm that optimizes program execution using floating point approximations.
- **University of Connecticut** Storrs, CT  
*Research Intern* May 2021 - Sep 2021
  - **Tensorflow:** Used Python and Tensorflow to devise machine learning model that can detect SIP (spontaneous intestinal perforation).
  - **Collaboration:** Coordinated with PhD student, Head of CS Department, and doctors at Hartford Children's Hospital.
  - **REST API:** Created REST API and web app to leverage the capabilities of the model.
  - **Presentation:** Presented findings at Connecticut Children's Research Institute.
  - **Impact:** Model and application are now used by approximately 300 doctors in Connecticut Children's Care Network.

## PROJECTS

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- **Code Buddy**  
*Visual Studio Code Extension*
  - **Description:** Code Buddy is an IDE extension that harnesses LLMs to optimize the coding experience for developers.
  - **Retrieval-Augmented-Generation:** Developed a RAG framework using Chroma DB as the vector database.
  - **Ollama:** Constructed a model file to create custom Ollama models.
  - **Technologies:** Node.js, HTML, CSS, Chroma DB, Docker, PostgreSQL
- **SIP Predictor**  
*Web Application and Machine Learning Model*
  - **Description:** SIP Predictor is a program that utilizes a variety of factors such as birth weight and Apgar score to determine the likelihood that an infant has SIP (spontaneous intestinal perforation).
  - **Tensorflow:** The app harnesses Tensorflow to develop logistic regression ML model, which achieved an accuracy rate of over 98%.
  - **Technologies:** Python, Tensorflow, REST API, HTML, CSS, JS

## SKILLS

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- **Programming Languages:** Java, Swift, Python, Javascript, Node.js
- **Frameworks/Technologies:** iOS, Android, Docker, PostgreSQL, Git