SAKSHAM PURBEY

spurbey3@gatech.edu
4105 Golden Knoll Rd· Cumming, GA 30028 · (470) 695-8296

EDUCATION

BSC: Computer Science	Georgia Institute of Technology; Atlanta, GA	May 2025
	Overall GPA: 3.90	
	Dean's Scholar	
	Current coursework: Applied Combinatorics, Object and Design, Comp. Model Algorithms, VIP Machine Learning for Financial Markets	

High School Diploma	Alpharetta High School; Alpharetta, GA	May 2021
	Overall GPA: 4.33	
	Participated in the Talented and Gifted Program	
	Completed the Governor's Honors Program	
	National AP Scholar; SAT: 1530	

EXPERIENCE

Hacklytics– *Georgia Institute of Technology;* Atlanta, GA — February 2023
- Developed a multilingual chatbot that can receive and process audio input from various languages
- Trained a Natural Language Processing model and incorporated it with an open-source chatbot

Hex Labs HackGT– *Georgia Institute of Technology;* Atlanta, GA — October 2022
- Created Board Band, a webapp that allows users to play instruments and music using shapes
- Trained a machine learning model to characterize shapes according to parameters like color and size
- Developed a function to track hand movement and capture depth when needed as user input

PROJECTS

Landscape_GAN
- Trained a Generative Adversarial Network to generate fake landscape images
- Used PyTorch to train a DQGAN while tracking several loss functions
- Built a pipeline to generate over 6000+ images

Early Cancer Detection
- Created a webapp that takes in radiology imagining to detect cancer
- Sorted raw imaging data according to various parameters to make it more accessible for the model
- Used TensorFlow to successfully implement a Random Forest Model with 87 % accuracy

LEADERSHIP EXPERIENCE AND ACTIVITIES

Big Data Big Impact – Project Lead — September 2022 – Current
- Attended several workshops to explore machine learning
- Led a team in developing a deep learning algorithm from scratch

Dixon Lab – Undergraduate Research Assistant — May 2022 – August 2022
- Studied the therapeutic effects of various nanoparticles in treating lymphedema
- Ran Flow Cytometry and performed data analysis throughout numerous trials

AWARDS
- Academic Excellence and Achievement Awards, multiple Honor Rolls, Presidential Award for Educational Excellence, regional and state awards in FBLA, HOSA, Online Certification from Harvard, and Science Fair

ADDITIONAL INFORMATION

Programming Languages: Java, Python, Dart, JavaScript, HTML, and CSS
Skills: Machine Learning, Data Structures, Flutter, React, and Bootstrap
Certifications: AWS Cloud Practitioner, Data Science and Machine Learning Bootcamp