## Atiksh Bhardwaj

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Education	
Cornell University, College of Engineering	Ithaca, NY
Bachelor of Science in Computer Science, Minor in Mathematics	Expected December 2025
UPA: 4.00/4.00 Honors and Awards: Deen's Honors List and On Treak for Honors Program	
<b>Balated Courses:</b> Algorithms, Reinforcement Learning, Machine Learning, Computer Vision	Artificial Intelligence
Functional Programming, Systems and Organization, Probability and Statistics, Discrete Math. Computational Algebra	
Honors Data Structures Linear Algebra Multivariate Calculus Abstract Algebra	Computational Augebra,
Technical Skills	
Back and Development Tooler Dethon Jone OCaml MATLAD Simulials DOS C.C.	
<ul> <li>Back-end Development Tools: Pytholi, Java, OCanii, MATLAD, Simulink, ROS C, C</li> <li>Front and Development Tools: Electron, HTML 5, CSS2 &amp; JavaScript</li> </ul>	.++, SQL
Front-end Development Tools: Electron, HTMLS, CSS5 & JavaScript     Development Tools: Citllah, VC Code, DetTorch, TercorFlow, OperCV	
Developer Tools: Git, Github, VS Code, PyTorci, Tensorriow, OpenCV	
<ul> <li>Cloud Development Tools: AwS, Azure, Google Cloud,</li> <li>Commutant Linux, Windows, MacOS Microsoft Suite (Erect, Word, &amp; DeverDaint), D</li> </ul>	landar Casala Suita
• Computer: Linux, windows, MacOS Microsoft Suite (Excel, word, & PowerPoint), B	lender, Google Suite
	N. 2022 D
Research Experience	May 2023-Present
• Research as a Full-Time Undergraduate Researcher for PoRTaL Group under Prof. San	Jiban Choudhury during
School Year and Summer 2023 and Summer 2024	C-DL 2024
MOSAIC: A Modular System for Assistive and Interactive Cooking	CORL 2024
<ul> <li>Engineered vision-based system for human pose tracking to run previous forecasting ag</li> <li>Coded in Pathon and POS to outcomete different robot tools such as hondown and stimi</li> </ul>	goriums
Coded III Python and ROS to automate different robot tasks such as handover and stiffin prompts generated by the LLM tesk plenner	ig that activated from
Best Paper at ICPA 2024 VI NIMN Workshop and Best Poster at ICPA 2024 MoMe W	orkshop
InteR ACT: Transformer Models for Human Intent Prediction Condition on Robot Action	ICR A 2024
<ul> <li>Engineered a ROS framework to man human movement to Franka Robot for Human-Re</li> </ul>	obot data collection
<ul> <li>Coded Alignment loss for training transformer architecture to compare human motion versus robot motion</li> </ul>	
<ul> <li>Created and Maintained Collaborative Manipulation Dataset (CoMaD) with over 488 https://doi.org/10.1011/j.j.</li> </ul>	uman-human episodes and
304 human-robot episodes resulting in a total of 7 hours of motion	uman-numan episodes and
ManiCast: Collaborative Manipulation with Cost-Aware Human Forecasting	CoRL 2023
Created new human-human data for training created figures and edited final paper	2012 2020
Work Experience	
Teaching Assistant	August 2023-Present
• Hold weekly office hours, Create new assignments for each course, Grade exams and as	ssignments
• Reinforcement Learning (Spring 2025), Robot Learning (Fall 2024), Artificial Intelligence (Spring 2024),	
Functional Programming (Fall 2023)	
Brains4Drones Internship	May 2022-August 2022
Programmed computer vision algorithm to identify specific danger zones amongst wild	fire prone areas
• Created automatic panorama stitcher to make LIDAR maps through OpenCV and C++	based on drone movement
• Coded GUI application in JavaScript for line workers to view footage and automated Li	idar Map in real-time
Projects	
DINK: Differently Initialized Q-Networks	January 2024-May 2024
• Collaborated with team of 2 for final project of CS4756: Introduction to Robot Learning	g
• Coded a Deep Q-Network in Python from a public Atari dataset on open-source Space Invaders environment	
CritterWorld August 2022–December 2022	
• Collaborated with team of 3 for final project of CS2112: Honors Data Structures to mak	ke a high fidelity simulator
• Coded in Java, a new critter programming language, a backend simulation engine, and a	a GUI for the simulation
BigRed//Hacks	November 2022
• Collaborated with team of 4 to create NFTTree as an open marketplace for users to grow	w trees via NFTs
• Developed a JavaScript GUI as a prototype mock of the social media gallery of the NFT	Γ trees

Winner of Blockchain and Web Track sponsored by PI Network