

Kautilya Veer

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EDUCATION

TAMPA, FL

University of South Florida

GPA: 3.96/4.00

Bachelor of Science in *Computer Science*, Minor in *Astronomy* | Honors College | Director's Award

EXPERIENCE

Machine Learning Intern

May 2025 – Jul. 2025

Suhora Technologies

Delhi NCR, India

- **Optimized** machine learning models to **analyze geospatial satellite data** for predicting critical natural disastrous phenomenons
- **Developed** an automated **satellite tracking tool** that generates rise, culmination, and set times of any satellite for user-defined coordinates in **JSON format** along with its live location on a 3D globe using **Cesium**, handling **1,000+ queries/day** with **<5s** average response time, boosting data accessibility for **50+ users** including internal analysts and external partners

Co-Founder

Feb. 2025 – Present

CiviSight

Atlanta, GA

- **Spearheading** the development of a **County Management & Compliance platform** aimed at modernizing communication, streamlining regulatory workflows, and improving compliance tracking between state agencies and county administrators
- Built a **responsive** and secure platform with dedicated portals for Counties & County Commissioners and integrated AI-powered automation to streamline **federal form completion**, reducing manual entry time by an average of **15 minutes per submission**
- Raised **\$5,000** in seed funding @**Georgia Tech CreateX Startup Launch & top 5%** startups in **Y Combinator X25** applicants

PROJECTS

Betes the Stroke | *React, HTML, CSS, Machine Learning, Tailwind* | [GitHub](#)

Apr. 2025

- Developed a **web application** that leverages machine learning to predict **stroke risk in diabetic patients** based on personal health and lifestyle data with a **82%** accuracy, offering an **affordable alternative** to frequent clinical consultations
- Implemented a personalized **nutrition engine** that generates **macronutrient targets** using a separate ML model based on **public hospitals data** and generates **region-specific meal recommendations** in under <2s, tailored to each user's dietary needs

Lend-A-Hand | *Data Analytics, Statistical Modeling, Python, JavaScript, Flask, SciPy* | [GitHub](#)

Feb. 2025

- Developed a **web-based loan recommendation** system that analyzes users' financial data and predicts loan approval likelihood with **87%** accuracy using a dataset of **100,000+** records using statistical modeling with **Z-Score calculations**
- Integrated a dynamic **revenue optimization engine** using **statistical formulas** that prioritizes banks offering higher commissions while maintaining recommendation fairness, resulting in increased profitability without compromising user trust

RESEARCH

Emotion-Related Micro-Gesture Recognition using Machine Learning models like MANet and MESR

- Worked with a team of 3 under Prof. Yu Sun to **fine tune a benchmark model "Micro-Action Network"** incorporating "Squeeze and Excitation" into the **ResNet architecture** using **MA-52** dataset consisting of 22,422 video instances

A Thermal Insulation and UV-Resistant System based on Aerogel for Settlements on the Moon and Mars

- Published in **International Journal of Research in Applied Sciences and Engineering Technology (XI, VII)**
- Oral Presentation at **OneUSF Undergraduate Research Conference 2025**

The Aegis - A Fully Autonomous Space Habitat at the L5 Lagrange Point of Ganymede

- **Designed** proposal of autonomous infrastructure systems, life-support simulations, robotic construction pipelines, sustainable energy generation techniques and agriculture frameworks for a **self-sustaining off-Earth civilization on Ganymede**
- Recieved **International First Prize** in **Gerard K. O'Neill (NASA Ames) Space Settlement Design Challenge, 2023**
- Invited to present at **International Space Development Conference, 2023** in Frisco, TX

LEADERSHIP

Technical Chair

Mar. 2025 – Present

Association for Computing Machinery — USF Chapter

Tampa, FL

- **Spearheaded** a team of **10 members** to drive technical initiatives, overseeing weekly workshops that imparted foundational computer science knowledge, cultivating a learning environment which led to **100+ attendance** in events
- Collaborated closely with the Software and Hardware teams of **8 members each** to work on a semester long project of **Gesture Controlled Robotic Arm** and produce a valuable research paper out of it, raising **\$500+** in departmental funds
- Organized **Florida's first AI Convention**, hosting **over 200 attendees** with industry representatives from leading tech firms, coordinating workshops and showcasing research projects, establishing the chapter as a state leader in AI innovation and outreach

TECHNICAL SKILLS

Languages: Python, C, C++, HTML, CSS, SQL, Javascript, Typescript, Qbasic

Developer Tools: Git, Azure, Docker, Google Cloud Platform, Firebase, Visual Studio, Atom, JetBrains, Anaconda, Jupyter, Linux

Technologies: React, Angular, NextJS, Tailwind, Django, Supabase, Firebase, Power BI, Power Automate, Numpy, Pandas