Adityaa Suratkal

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Education

Rensselaer Polytechnic Institute — Troy, NY
- **BS** in Computer Science and **Certificates** in Machine Learning and Deep Learning **GPA**: 3.7 — June 2027
- **Relevant Coursework**: Data Structures, Foundations of Computer Science, Intro to AI
- **Dean's Honor List, UPE Member**

John P Stevens High School — Edison, NJ
- **GPA:** 4.4, **SAT:** 1500 (730 EWR, 770 M) — June 2023
- **Awards:** National Honor Society, National Technical Honor Society, National Merit Scholarship Commendation

Technical Skills

- **Programming Languages:** Python, C++, C, Java, HTML, CSS, Javascript
- **Technical Skills:** Tensorflow, Pytorch, Sci-Kit Learn, Azure Cloud, Node.js
- **Other:** CAD, Slicers, 3D Printing, Computer Vision, Natural Language Processing

Projects

Segment Anything Clone
- Designed and built **Image Segmentation** system to generate mask based on text input
- Integrated **Transformer** architecture to implement One-Shot learning

Smart Quick-Draw System
- Engineered **Image Recognition** System to recognize **hand-drawn** images
- Utilized Google Quick-draw dataset to train model

Email Classification System
- Programmed **Classification** system to classify incoming emails into multiple categories based on subject and body
- Implemented **Decision Trees** and **Latent Dirichlet Allocation (LDA)** from **Sci-Kit Learn**

Experience

CareerMatch-AI — Troy, NY
Machine Learning Engineer — January 2025 – Present
- Designed and Built **Recommender System** model to match job applicants to internships and full time positions
- Coordinated with **7-person team** to build a **full data management** pipeline

Qforecast Capital — Troy, NY
Co-Founder/Engineer — January 2025 – Present
- Developed automated **QML** system to perform automated investing decisions
- Collaborated with Co-Founder to build full-fledged **mutual fund**

Tortue Tennis — Bradenton, FL
Lead Backend Engineer — June – September 2024
- Developed **Backend** and **Data Acquisition** of Production-Level App
- Implemented using Node.JS and hosted on **Microsoft Azure Cloud Services** during deployment

Rensselaer Polytechnic Institute Research — Troy, NY
Student Researcher — January 2024 – Present
- Developing **lightweight Image Segmentation system** with text-based input for future autonomous or mobile implementations

Dasser Biotechnologie — New York, NY
Prototyping Consultant — January – June 2023
- Developed medical instrument **prototype** by implementing **3D printing** and C++ coding

Rutgers WINLab — New Brunswick, NJ
Summer Intern — June – August 2022
- Collaborated with research team to construct an RC car with **Front-Facing camera** and **remote control**
- Implemented **3D Printing** to construct Chassis and mounting systems along with connection via **UDP packets** for control over Internet