

Hitansh Mendiratta

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EDUCATION

Texas A&M University

Bachelor of Science in Computer Science
University and Engineering Honors

College Station, Texas

May 2028

4.0 GPA

SKILLS & CERTIFICATIONS

Languages: Python, Java, JavaScript, C++, Haskell, HTML/CSS

Frameworks & Tools: React, Flask, Streamlit, Three.js, Svelte, GitHub

AI/ML: PyTorch, Scikit-learn, Whisper, ONNX, SARIMA

Cloud & Databases: AWS S3, Apache Cassandra

Certifications: [AWS S3 Basics](#), [Python Data Structures](#), [Programming for Everybody \(Python\)](#), [Machine Learning with Python](#)

Relevant Courses: Data Structures and Algorithms, Computer Organization, Programming Languages (Haskell/Java), Linear Algebra

PROFESSIONAL EXPERIENCE

JP Morgan Chase Internship

Software Developer & Scrum Master

Houston, Texas

Jun. 2023 – Aug. 2023

- Automated transfer of **100+** Cassandra tables to **AWS S3 (Java, Parquet)**, enabling scalability and reducing query latency by **40%**.
- Optimized pipeline performance with **multithreading** and **Parquet** serialization.
- Authored Cassandra installation documentation to assist peers, reducing setup time for new developers by **50%**.
- Facilitated daily Scrum for a team of **8 developers**, driving consistent sprint velocity and on-time deliverables.
- Presented** project scalability and business impact to an **Executive Director**, influencing adoption for enterprise-wide use.

PROJECTS

DatathonLite | 3rd Place

Apr. 2025

- Achieved Top **3** finish out of **40+** teams by developing an AI-driven game simulation analyzer that extracted precise audio timestamps using **OpenAI Whisper**, improving insight accuracy by **30%**.
- Built visualization pipeline that decoded hidden patterns in data using **Gemini** and **Pandas**, helping judges interpret insights quickly.

Cabin Connect | TAMUhack | Best Use of Cloudflare Winner

Jan. 2025

- Built an **in-flight infotainment system** enabling synchronized video, live chat, and **3D flight tracker** using **Three.js**, **Threlte**, **HTML**, **CSS**, and **Svelte**, rendering **10K+ polygons** at **60FPS**, earning recognition for commercial potential.
- Delivered a polished demo to 5 industry experts, securing a category win over **700+** competitors with a **97%** flawless execution rate.

Roni Metrics

Nov. 2024

- Designed a customer analytics platform that identified sales patterns from **280,000+ data rows**, providing real-time business insights.
- Developed predictive models using **SARIMA** with **82%** accuracy and implemented results with **Streamlit** for intuitive visualization.
- Improved decision-making by giving stakeholders interactive tools to explore and track customer behavior.

Trash Tide

Oct. 2024

- Built a **Flask** web application that predicts ocean trash locations based on **120** years of NOAA ocean current and wind pattern data.
- Integrated **CNN + LSTM** models to forecast future trash concentrations using date, time, and GPS coordinates.
- Implemented interactive map visualization with **Folium/Leaflet**, displaying trash hotspots and nearest ports.
- Designed for use by environmental volunteers to identify high-risk zones more effectively.

Seamless Neural Artificial Intelligence Capture | Aggie Coding Club

Sep. 2024 – Dec. 2024

- Collaborated with **15+** teammates to create a **Raspberry Pi** application that tracked objects in real time through a live camera feed.
- Applied **Scikit-learn** and **ONNX** in Python to detect and highlight objects in real-time, creating a seamless user experience.
- Demonstrated practical applications of edge AI by linking objects interacted with by users to digital records.

LEADERSHIP & INVOLVEMENT

MSC Aggie Leaders of Tomorrow (MSC ALOT)

TEDxTAMU Director Of Operations | TEDxTAMU Marketing Team

College Station, Texas

Sep. 2024 – Present

- Advertised **TEDxTAMU** leading to **70+** speaker nominations, **300+** attendance, and **1.5x** followers on Instagram.
- Directed production efforts, fact-checked speaker content, and implemented new **TEDxTAMU Salons**.
- Served as **Master of Ceremony** and collaborated with **15+** peers in meetings to plan **TEDxTAMU**, ensuring seamless delivery.