AARCHA ULLASAN

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CAREER OBJECTIVE

Final-year AIML Engineering student with solid proficiency in Python and a strong understanding of machine learning fundamentals. Familiar with Django for backend development and building structured, database-driven web applications. Interested in leveraging Python for AI-driven solutions and continuously improving problem-solving and system design skills.

EDUCATION

Bachelors of Engineering in Artificial Intelligence and Machine Learning

Impact College of Engineering and Applied Sciences
2022 – 2026

Pre-University

Presidency PU College
2019 – 2021

SKILLS

- **Programming Languages** : Python, HTML ,CSS,
- **Frameworks & Libraries**: Django, Next.js, Tailwind CSS
- **Databases & Backend:** Firebase (Auth, Firestore), MySQL, Supabase, Clerk
- **DevOps & Tools**: Git & GitHub, Vercel, VS Code, Canva, Adobe Express
- **Soft & Leadership Skills:** Public Speaking & Hosting, Team Collaboration & Leadership, Event Planning & Coordination, Problem Solving , Community Engagement (Open Source, Hackathons), Communication & Documentation

INVOLVMENT

Lead Organizer and Licensee

TEDxICEAS | January 2025 - April 2025

- Spearheaded the organization of TEDxICEAS 2025 under the theme "Threads of Change," from planning to execution, attended by 100 participants.
- Led a cross-functional team across logistics, speaker curation, sponsorship, and design, ensuring seamless event coordination.

Open Source Contributor

Girl Script Summer of Code | October 2024 - November 2024

- Contributed to various open-source projects under GSSoC.
- Implemented features, resolved issues, and submitted pull requests across multiple GitHub repositories.
- Achieved a rank of **758** among all participants based on quality and quantity of contributions.

EXPERIENCE

Software Engineering Fellow

Headstarter AI | July 2024 - October 2024

- Built AI-powered applications using Next.js, Firebase, and MongoDB, integrating machine learning for personalized user experiences.
- Designed responsive interfaces with Material UI, improving accessibility and engagement.

Student Amnassador

Viral Fission | October 2022 - July 2025

- Organized blockchain gaming events, attracting over 100 participants and boosting community engagement.
- Created promotional reels for products, increasing social media engagement.

PROJECT

Sign Language Translator

- Built a real-time sign language translator that recognizes and converts 5 essential American Sign Language (ASL) gestures — **Hello, Thank You, Please, I Love You, and Sorry** — into text.
- Trained a **CNN model** on a custom dataset of hand gestures captured via webcam.
- Utilized **OpenCV** for real-time video input and image preprocessing.

Wandere AI - Hack this Fall 2024 Virtual

https://devfolio.co/projects/wandereai-9536

- Dynamic Itineraries: Crafts custom daily plans that balance activities, meals, rest, and transit.
- Authentic Local Insights: Integrates real traveler reviews and data to highlight regional favorites.
- Real-Time Updates: Adjusts plans on the fly based on current weather, local events, and seasonality

Jewelry E-Commerce Web Application

- Built a Python-based web application using Django framework and MySQL database.
- Developed backend logic for authentication, cart management, and order processing.
- Designed relational database models and optimized queries using Django ORM.
- Created responsive frontend interface using HTML and CSS.