

AYUSH VELHAL

ayush.velhal@gmail.com • (469) 763-5767 • [LinkedIn](#) • Dallas, TX

EDUCATION

The University of Texas at Dallas — Richardson, TX

Aug 2023 — May 2027 (Expected)

Bachelor of Science in Computer Science

CERTIFICATIONS

- **Crash Course on Python – Google (Aug 2024):** Strengthened Python fundamentals, data structures, and problem-solving skills, building a solid programming foundation.
- **AWS Cloud Practitioner Essentials (Aug 2025):** Gained foundational knowledge of AWS services, infrastructure, security, pricing, and cloud fundamentals, building a base for advanced certifications.
- **Python for Data Science & AI – IBM (Aug 2025):** Learned Python libraries (Pandas, NumPy, Matplotlib) and applied them to data science and AI use cases.

SKILLS

- **Languages:** Python, Java, C#, JavaScript
- **Frameworks/Tools:** React, Flask, Streamlit, OpenPose, MediaPipe, TensorFlow, LangChain, FAISS
- **Technologies:** GitHub, Agile Development
- **Soft Skills:** Leadership, Problem Solving, Teamwork, Adaptability, Communication

PROJECTS

Personal Portfolio Website (In Progress)

Tech: Streamlit, GitHub

- Developing a personal portfolio website with Streamlit, Python, and GitHub to showcase projects, certifications, and skills in an interactive format.
- Adding a Tech Nexus page to highlight key technologies like Streamlit and AWS and how I've applied them in real projects.

PosePerfect – AI Fitness Posture Assistant

Tech: React, Flask, Python, MediaPipe, TensorFlow

- Developed a React frontend with Flask backend for pose estimation and result display.
- Added OpenAI-powered tips plus login, signup, and dashboard features for tracking sessions.

TarkAI – AI-Powered Document Analyzer

Tech: Streamlit, LangChain, FAISS, PDFUtil

- **2nd Place** – HackAI 2025 (LTIMindtree Challenge)
- Created custom interfaces for analyzing academic, financial, and career documents.
- Used Retrieval-Augmented Generation to search and extract insights from PDFs.

Analytico – Social Media Analytics Tool

Tech: Python, OpenAI

- Built a tool to analyze social media engagement data, track reach, likes, and audience behavior, and visualize trends with filters and dashboards.
- Integrated OpenAI to suggest optimal posting times and provide AI-driven content improvement strategies.

LEADERSHIP & INVOLVEMENT

- **Brother** – Kappa Theta Pi (Software Engineering Track)
Contributing to team-based development projects in a professional tech fraternity.
- **Mentee** – ACM Mentorship Program
Improving technical and career skills through structured mentorship.
- **Social Media Manager** – Comet Cricket Club
Designing posts, leading marketing efforts, and boosting online engagement.
- **Team Lead** – AIMD
Led development of a fitness posture correction tool using AI and computer vision.