

AYUSH VELHAL

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Location: Dallas, TX

[LinkedIn](#)

EDUCATION

The University of Texas at Dallas — Richardson, TX

Bachelor of Science in Computer Science

Aug 2023 – May 2027 (Expected)

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
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PROJECTS

Personal Portfolio Website

- **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
 - Built React frontend for file upload and result display, with Flask backend for pose estimation.
 - Integrated OpenAI API for personalized form improvement tips.
 - Added login, signup, and dashboard features to track session history.

TarkAI – AI-Powered Document Analyzer

- **Tech:** Streamlit, LangChain, FAISS, PDFUtil
 - 🏆 **2nd Place – HackAI 2025 (LTI Mindtree 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:** Streamlit, Python, OpenAI
 - Built a tool to analyze social media engagement by automating data collection across platforms and generating insights on reach, likes, and audience behavior.
 - Integrated OpenAI to suggest optimal posting times and provide AI-powered content strategy recommendations for improvement.
 - Designed an interactive dashboard with filters, graphs, and visualizations to track growth and engagement trends over time.
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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.