# AYUSH VELHAL

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## 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

## 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 (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**: 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.

## 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.