

# AYUSH VELHAL

Email: ayush.velhal@gmail.com

Phone: (469) 763-5767

Location: Dallas, TX

[LinkedIn](#)

[Portfolio](#)

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## EDUCATION

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The University of Texas at Dallas — Richardson, TX

Bachelor of Science in Computer Science

Aug 2023 – May 2027 (Expected)

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## SKILLS

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- **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

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### 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.
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## LEADERSHIP & INVOLVEMENT

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- **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.
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