

AYUSH VELHAL

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EDUCATION

University Of Texas At Dallas | Richardson, TX - Bachelor of Computer Science 2023-2027

CERTIFICATIONS

AWS Cloud Practioner Completed AWS Cloud Practitioner Essentials on August 3, 2025, gaining a solid foundation in AWS services, infrastructure, security, and pricing—my first step toward advanced AWS certifications and cloud projects.

Python For Data Science & AI - IBM Completed Python for Data Science and AI by IBM on August 31, 2025, gaining hands-on experience with Pandas, NumPy, Matplotlib, and foundational machine learning and AI applications.

Generative AI: Prompt Engineering Basics - IBM Completed Generative AI: Prompt Engineering Basics by IBM on October 8, 2025, learning to craft effective prompts, refine AI outputs, and apply generative AI responsibly for smarter solutions.

Crash Course on Python - Google Completed Crash Course on Python by Google on Coursera on August 30, 2024, strengthening my understanding of Python fundamentals, data structures, and problem-solving skills.

SKILLS

Languages: Python, Java, C#, JavaScript

Frameworks & Tools: React, Flask, Streamlit, OpenPose, MediaPipe, TensorFlow, LangChain, FAISS

Technologies: AWS, GitHub, Firebase, Agile Development

Soft Skills: Leadership, Problem-Solving, Teamwork, Adaptability, Professional Communication, Project Management

LEADERSHIP & EXPERIENCE

BROTHER | KAPPA THETA PI (KTP) 02/2025 — Present

- Active brother in Kappa Theta Pi, a professional technology fraternity at UT Dallas.
- Participate in workshops, mentorship programs, and networking events to enhance technical and professional skills.
- Collaborate with members on real-life projects to gain hands-on experience in computer science and emerging technologies.
- Develop leadership, teamwork, and communication skills through active fraternity involvement.

Technology Officer | Amazon Web Services (AWS Club) 09/2025 — Present

- Lead interactive workshops introducing students to cloud computing and AWS services through real-world demos and labs.
- Teach members how to deploy, manage, and scale applications using core AWS tools.
- Help students prepare for AWS certifications by simplifying complex cloud concepts and sharing study resources.

TEAM LEAD | Artificial Intelligence - Medical (AIMD) 01/2025 — 05/2025

- Led a team of developers and researchers to design and implement AI-based solutions for real-world problems.
- Managed project planning, task delegation, and progress tracking to ensure timely and effective outcomes.
- Guided members in learning and applying machine learning, Python, and AI tools through hands-on collaboration.
- Fostered a team-oriented environment focused on innovation, technical growth, and problem-solving.

PROJECTS

Personal Portoflio | Website 08/2025 — 09/2025

- Designed and developed a personal portfolio website using Streamlit to showcase projects, certifications, and technical skills in an interactive and visually appealing format.
- Integrated GitHub repositories to display live project links, source code, and version history for transparency and accessibility.
- Continuously update the site to reflect new achievements, ensuring it serves as a central hub for my professional and academic journey.
- Added a "Tech Nexus" section highlighting technologies like Streamlit, AWS, and AI tools, along with examples of their real-world applications in my projects.

TarkAI | Full Stack Project 04/2025 — 04/2025

- Designed an AI-driven document analysis system that extracts and summarizes key insights from academic, financial, and career-related PDFs using Retrieval-Augmented Generation (RAG).
- Built an interactive Streamlit interface enabling users to upload documents, ask context-based questions, and receive AI-generated answers with cited sources.
- Earned 2nd Place in HackAI 2025 (LTIMindtree Challenge) for innovation, usability, and real-world problem-solving impact.

Analytico | Social Media Analytics Tool 02/2025 — 05/2025

- Developed a social media analytics platform to automate data collection and analyze engagement metrics such as reach, likes, and audience behavior.
- Integrated OpenAI API to generate personalized insights, recommend optimal posting times, and suggest AI-driven content strategies for growth.
- Designed an interactive dashboard with filters, graphs, and visualizations to track performance trends across multiple platforms.

PosePerfect | AI Fitness Posture Assistant 01/2025 — 05/2025

- Created an AI-powered fitness tool that analyzes workout videos and provides real-time feedback on body posture and form accuracy.
- Built the React frontend for file uploads, result visualization, and user interaction, connected to a Flask backend for pose estimation using MediaPipe and TensorFlow.
- Integrated OpenAI API to deliver personalized suggestions for improving workout techniques and preventing injuries. Added login, signup, and dashboard features to track user progress, session history, and performance over time.