POSE VISTA

PROBLEM STATEMENT CODE:
CR 03

TEAM NAME:
TECH TRIBES

TEAM MEMBERS:

S.SACHITHANANDAN

A.RAVINTHAR

A.AKILAN

B.GOKULNATH

LEVEL OF INNOVATION

- THE PROJECT SHOWCASES A HIGH LEVEL OF INNOVATION BY LEVERAGING RESNET50 FOR ADVANCED POSE ANALYSIS.
- ITS UNIQUE FEATURES INCLUDE PERSONALIZED RECOMMENDATIONS BASED ON BACKGROUND, OUTFIT, AND GOALS, OFFERING A USER-CENTRIC APPROACH.
- THE MULTI-BRANCH STRATEGY ENHANCES ADAPTABILITY, WHILE REAL-TIME RECOMMENDATIONS ADD A DYNAMIC TOUCH.
- THESE INNOVATIONS POSITION THE SYSTEM AS A STANDOUT SOLUTION, SETTING THE STAGE FOR FUTURE ADVANCEMENTS IN POSE RECOMMENDATION TECHNOLOGY.

ORIGINALITY

- THE ORIGINALITY OF THIS PROJECT LIES IN ITS HOLISTIC APPROACH TO POSE RECOMMENDATION.

- UNLIKE CONVENTIONAL MODELS, IT INCORPORATES NOT ONLY KEYPOINT ANALYSIS BUT ALSO CONSIDERS CONTEXTUAL FACTORS SUCH AS BACKGROUND, OUTFIT, AND USER GOALS.

- THIS INNOVATIVE FUSION OF COMPUTER VISION AND PERSONALIZED RECOMMENDATION SYSTEMS INTRODUCES A NOVEL DIMENSION TO POSE RECOGNITION TECHNOLOGY.

- BY ADDRESSING A BROADER SPECTRUM OF USER PREFERENCES AND INTENTIONS, THE PROJECT SETS ITSELF APART IN DELIVERING A MORE NUANCED AND TAILORED EXPERIENCE, MARKING A SIGNIFICANT ADVANCEMENT IN THE FIELD
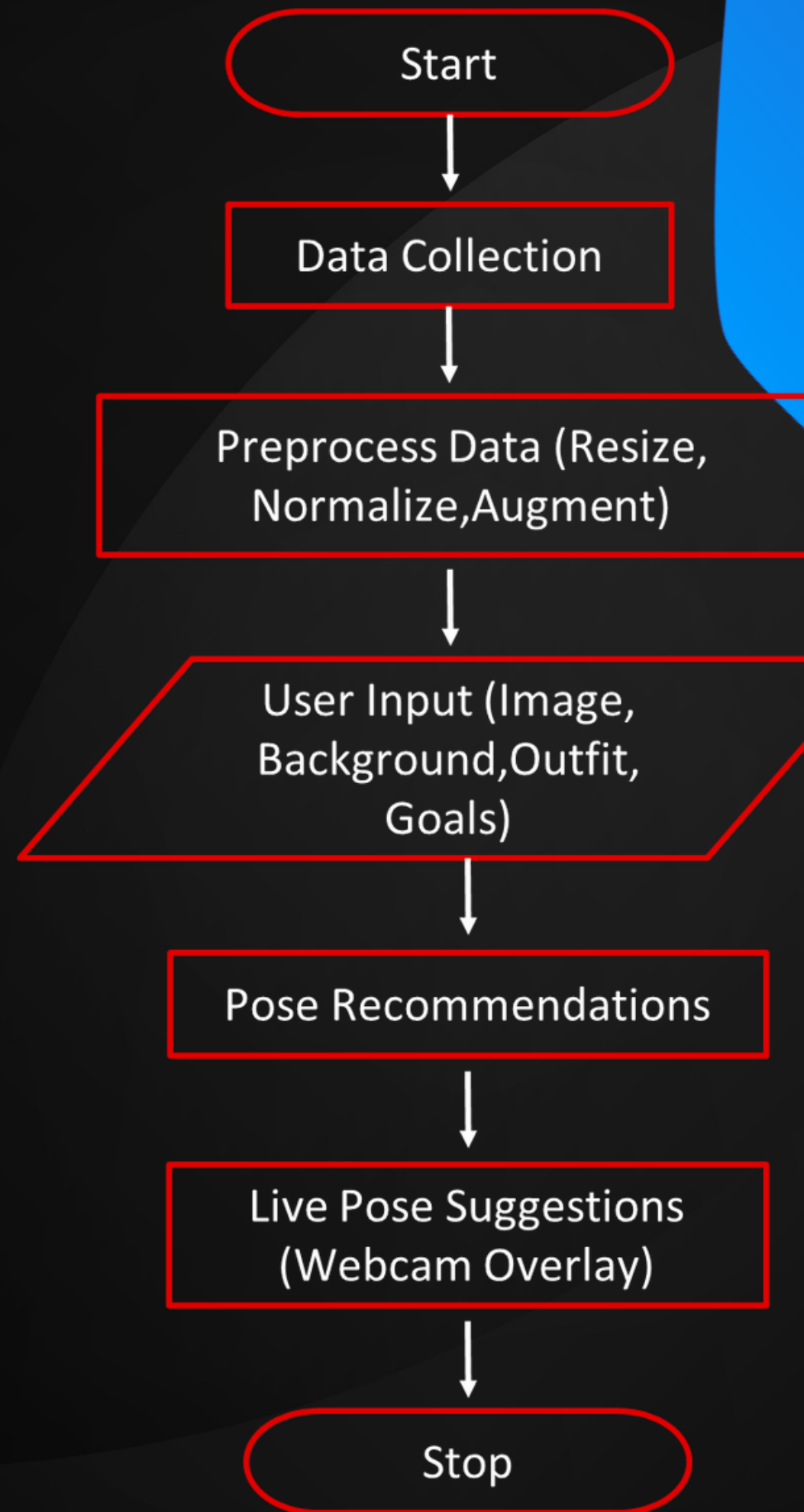
REALISTIC CAPABILITY

- THE PROJECT DEMONSTRATES STRONG REALISTIC CAPABILITY BY EMPLOYING SOPHISTICATED DEEP LEARNING METHODS, SUCH AS RESNET50 AND ONEDNN CUSTOM OPERATIONS.
- THIS ENSURES THE SYSTEM'S EFFECTIVENESS IN RECOGNIZING POSES, SHOWCASING ITS PRACTICALITY FOR REAL-WORLD APPLICATIONS.

VALUE ADDITION

- OUR PROJECT SHOWCASES A REMARKABLE LEVEL OF INNOVATION THROUGH ITS PIONEERING APPROACH TO POSE RECOMMENDATION.

- BY COMBINING ADVANCED COMPUTER VISION TECHNIQUES, RESNET50 ARCHITECTURE, AND MACHINE LEARNING ALGORITHMS, OUR SYSTEM OFFERS AN ORIGINAL AND CUTTING-EDGE SOLUTION , PROVIDING PERSONALIZED POSE RECOMMENDATIONS FOR DIVERSE USE CASES SUCH AS PHOTOGRAPHY, DANCE, AND MORE.

FLOWCHART

Start

↓

Data Collection

↓

Preprocess Data (Resize, Normalize,Augment)

↓

User Input (Image, Background,Outfit, Goals)

↓

Pose Recommendations

↓

Live Pose Suggestions (Webcam Overlay)

↓

Stop

THANK YOU