

Y.M. V.A.D YAPA

Skill Analyzer | Data Scientist | Sports Coach | Researcher

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Portfolio: <https://port-folio-rv1p.vercel.app/index.html> | GitHub: <https://github.com/Asanka999>

PROFESSIONAL SUMMARY

Highly motivated Sports Science Undergraduate with a strong foundation in Skill Analyzer, Data Scientist, and Fitness Coach with expertise in sports science, biomechanics, and data analytics. I use performance data and training insights to optimize athletic development, strength, and conditioning. Passionate about blending science and technology, I help athletes and clients achieve peak performance. Proficient in predictive modeling, data processing, data mining algorithms, and scripting languages, including Python.

WORK EXPERIENCE

Performance Analyzer and Physical Fitness Trainer

Sabaragamuwa University of Sri Lanka/ Team kabaddi

January 2023 – Present

- Trained 20+ athletes, improving their strength, endurance, and agility
- Led the team to 1st place in the Inter-University Games Championship.
- Developed customized fitness programs, increasing overall team performance by 30%.

Sports Scientist and Sports Coach (intern)

B/ Uduhawara Maha Vidyalaya, Sri Lanka

June 2025 – August 2025

- Developed Python-based movement analysis programs
- 60+ athletes trained, including team games and athletes, improving their strength, endurance, and agility, and technical skills.
- Developed customized fitness programs, increasing overall team performance.

PROJECTS

Motion Analysis Program

Sabaragamuwa University of Sri Lanka

A Python-based program for analyzing human movements, angles, and CG pathways. I developed a Center of Gravity (CG) Analysis Program using Python to calculate and visualize the center of gravity for various mechanical and structural systems. The program allows users to input different mass components and their coordinates, then computes the overall CG based on standard engineering formulas.

- Developed a video-based movement analysis tool with biomechanical landmarks.
- Integrated space calibration and center of gravity tracking for accurate analysis.

I designed and developed a Sports Center Management System for Sabaragamuwa University to streamline the management of sports facilities, athlete records, and event scheduling. This system was created to support the administrative staff in efficiently handling

- equipment inventory
- user registrations
- booking facilities
- tracking student participation in sports activities.

EDUCATION

BSc. Hons Sports Sciences and Physical Education

Sabaragamuwa University of Sri Lanka

Expected Graduated: 2025

High School

B/ Uduhawara Maha Vidyalaya, Sri Lanka

2015 – 2018

CERTIFICATIONS

- Certificate in Computer Office Applications, National Youth Services Council (NYSCO)
 - MS Word
 - Excel
 - PowerPoint
 - Access
 - Internet & Email
- Diploma in English: English Past Graduate Association

[Link to verify](#)

[Link to verify](#)

ACHIEVEMENTS

- All-island champions in kabaddi 2016 [Link to verify](#)
- Provincial champions in kabaddi 2016 [Link to verify](#)
- Invitational University National Kabaddi Champions 2023 [Link to verify](#)
- Provincial Runners up in Kabaddi 2017 [Link to verify](#)
- Festival meets provincial champions in kabaddi 2018 [Link to verify](#)
- Provincial 3rd place in kabaddi 2015 [Link to verify](#)
- Harsha Dananjaya Invitational University National Kabaddi Champions in 2022 [Link to verify](#)
- Youth meet District Champions in Kabaddi 2017 [Link to verify](#)
- Divisional level certificates [Link to verify](#)

VOLUNTEER EXPERIENCES

- President – Subject Association of Sports Sciences and Physical Activities
- Physical Fitness Trainer – SUSL Kabaddi Team
- Masseur – SUSL Kabaddi Team
- Participated in the Technical Analysis Program conducted for the Sri Lankan Youth Table Tennis Team 2025
- Fit Rush Aerobic Fitness Promotion Program Main Organizer
- Nimesuru 2020 Innovation Exhibition Main Organizer

CORE COMPETENCIES

Soft Skills

- **Leadership & Teamwork:** Trained 20+ athletes, leading them to 1st place in the Inter-University Games.
- **Problem-Solving:** Developed a motion analysis program to enhance sports performance evaluation.
- **Time Management:** Managed multiple projects in web development, mobile apps, and physical training.
- **Adaptability & Quick Learning**
- **Communication & Collaboration:** Worked with athletes, university staff, and developers to build effective solutions.
- **Social Media Marketing**
- **Content Creation & Copywriting**
- **Budget Management**
- **Data Analysis**

Technical Skills

- | | |
|-----------------|--------------------|
| • Programming R | • MongoDB |
| • Python | • Firebase |
| • OpenCV | • Machine Learning |
| • HTML | • MS Word |
| • CSS | • MS Excel |
| • JavaScript | • MS PowerPoint |
| • SQL | |

Tools

- | | |
|----------------------|-----------|
| • Visual Studio Code | • Kinovea |
| • R Studio | • PyCharm |
| • GitHub | |

INTEREST

- Web Development
- Data analytics Development
- Project Management
- Performance Analysis Projects

HOBBIES

- Technology
- Travelling
- Video Editing
- Music

RECOMMENDATIONS

Mrs. WKDSA Wickramarachchi

Senior Lecturer

Faculty of Applied Sciences,

Sabaragamuwa University of Sri Lanka.

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Mr. HAC Sampath Hapuarachchi

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