Paper TT08

Multilingual Programming Language: A Paradigm Shift in Clinical Programming

Pavan Kumar, GSK, Stevenage, United Kingdom

ABSTRACT (HEADER 1)

The Multilingual Programming Language (MPL) has transformed clinical programming, enabling the use of multiple languages within a single program. This capability has become essential, allowing programmers to utilize the strengths of various languages to boost efficiency and functionality. Programmers can choose the most suitable language for each task, enhancing both efficiency and quality. However, MPL adoption is challenging due to difficulties in learning, maintaining code readability, and ensuring interoperability between languages. Additional challenges include data exchange issues among different healthcare systems and adherence to regulatory standards. The lack of standardized MPL practices may lead to inconsistencies and inefficiencies. My presentation will cover the various topics like Power of Opensource, programming challenges, domain-specific challenges, compliance standards, programming benefits, and the future of programmers. In summary, By fostering collaboration and innovation, we can harness the power of MPL to drive advancements in healthcare technology and improve patient outcomes.

INTRODUCTION (HEADER 1)

The purpose of this presentation is to highlight the transformative impact of the Multilingual Programming Language (MPL) on clinical programming. It aims to demonstrate how MPL enhances efficiency, functionality, and quality by allowing programmers to leverage multiple languages in a single program. Additionally, the presentation will address the challenges of MPL adoption, including code maintenance, interoperability, and compliance, while showcasing its potential to drive advancements in healthcare technology and improve patient outcomes.

CONCLUSION (HEADER 1)

In conclusion, the adoption of Multilingual Programming Language (MPL) offers significant benefits for clinical programming, allowing for greater flexibility, efficiency, and innovation by utilizing the strengths of multiple programming languages. Despite the challenges of code readability, interoperability, and compliance, the potential of MPL to address domain-specific issues and drive advancements in healthcare is immense. By fostering collaboration and developing standardized practices, MPL can revolutionize clinical programming, ultimately contributing to better healthcare technology and improved patient outcomes.

REFERENCES (HEADER 1)

1. R Programming for Clinical Trial Analytics | Atorus Research
2. Using R to Submit Research to the FDA: Pilot 4 Successfully Submitted to FDA Center for Drug Evaluation and Research – R Consortium (r-consortium.org)
3. pharmaverse
4. ADaM in R Asset Library • admiral (pharmaverse.github.io)
5. PAP_OS05.pdf (lexjansen.com)

CONTACT INFORMATION (HEADER 1)

(In case a reader wants to get in touch with you, please put your contact information at the end of the paper.)
Your comments and questions are valued and encouraged. Contact the author at:

Author Name: Pavan Kumar KP
Company: GSK
Address: 14 Colwyn Close, Stevenage, SG12AT, United Kingdom
Work Phone: 0773344928
Email: pavan.10.kumar@gsk.com
Website: NA

Brand and product names are trademarks of their respective companies.