

# A GENTLE INTRODUCTION TO DATA ASSIMILATION AND HPC

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THE PROGRAM AIMS TO ENHANCE SKILLS IN APPLIED DATA SCIENCE, OFFERING FOUNDATIONAL EDUCATION AND PRACTICAL EXERCISES TAILORED FOR MATHEMATICS AND NUMERICAL COMPUTING ENTHUSIASTS.

## INTRODUCTION TO DATA ASSIMILATION

- BASICS OF DATA ASSIMILATION
- OPTIMIZATION TECHNIQUES
- NUMERICAL SOLUTIONS WITH PYTHON



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## INTRODUCTION TO DATA ASSIMILATION

- HIGH-PERFORMANCE COMPUTING OVERVIEW
- PRACTICAL PARALLEL PROGRAMMING
- ADVANCED HPC TOPICS



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