Analytics orchestration through the lens of music

Dr. Ansar Kassim
Head of Analytics & Insights
Verizon


Nehru Trophy
Boat Race
kerala
God's Own Country

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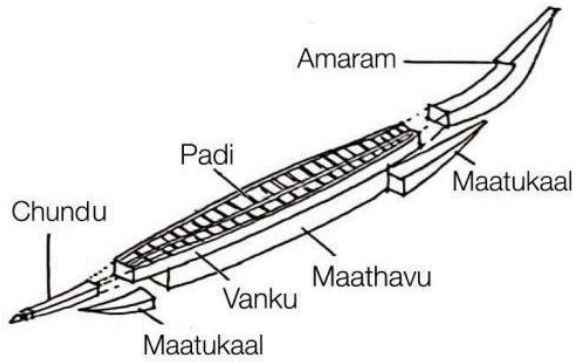
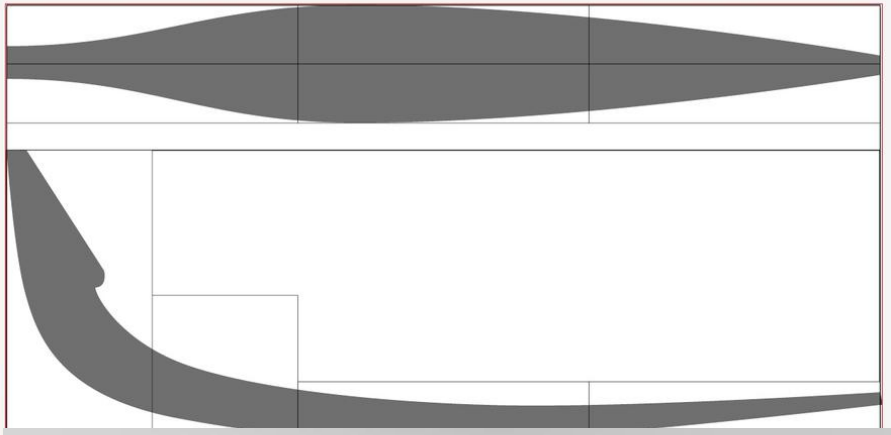


INTERNATIONAL CONFERENCE ON WATER RESOURCES, COASTAL AND OCEAN ENGINEERING (ICWRCOE 2015)

Modelling and CFD Analysis of Traditional Snake Boats of Kerala

B.Venkata Subbaiah[a]*, Santosh.G.Thampi[a], V.Mustafa[a]

[a] *Department of Civil Engineering, National Institute of Technology, Calicut, Kerala, India.Pin:673601*

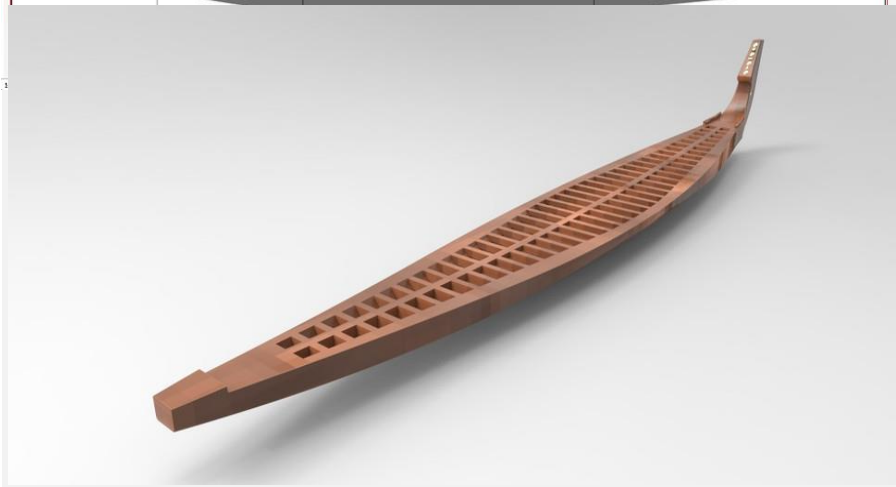


Abstract

Kerala has a rich maritime tradition dating back to several centuries. Snake boats, locally called Chundan vallams, are one of the icons of Kerala. Different types of snake boats take part in Vallamkali, the local name for traditional boat races. This paper presents the preliminary results of a study on a typical ChundanVallam. Data were collected at site using a total station and three dimensional drawings of the boat, required for performing the analysis, were developed using MAXSURF-16 and Rhinoceros-6.0. Hydrodynamic analysis was performed using the commercial CFD software package SHIPFLOW 5.1® Analysis was performed by employing coarse, medium and fine meshes. Validation of the model was performed by performing simulations with hull series 60 (S_60). The drag coefficient at different Froude numbers for steady turbulent flow was estimated by performing simulations with the data of the snake boat. Velocity vectors as well as contours of pressure distribution, obtained from the simulations, are also presented.

Peer-review under responsibility of organizing committee of ICWRCOE 2015

*Keywords:*Chundan Vallam; Snake Boat; CFD; Hydrodynamic Analysis; Drag Coefficient

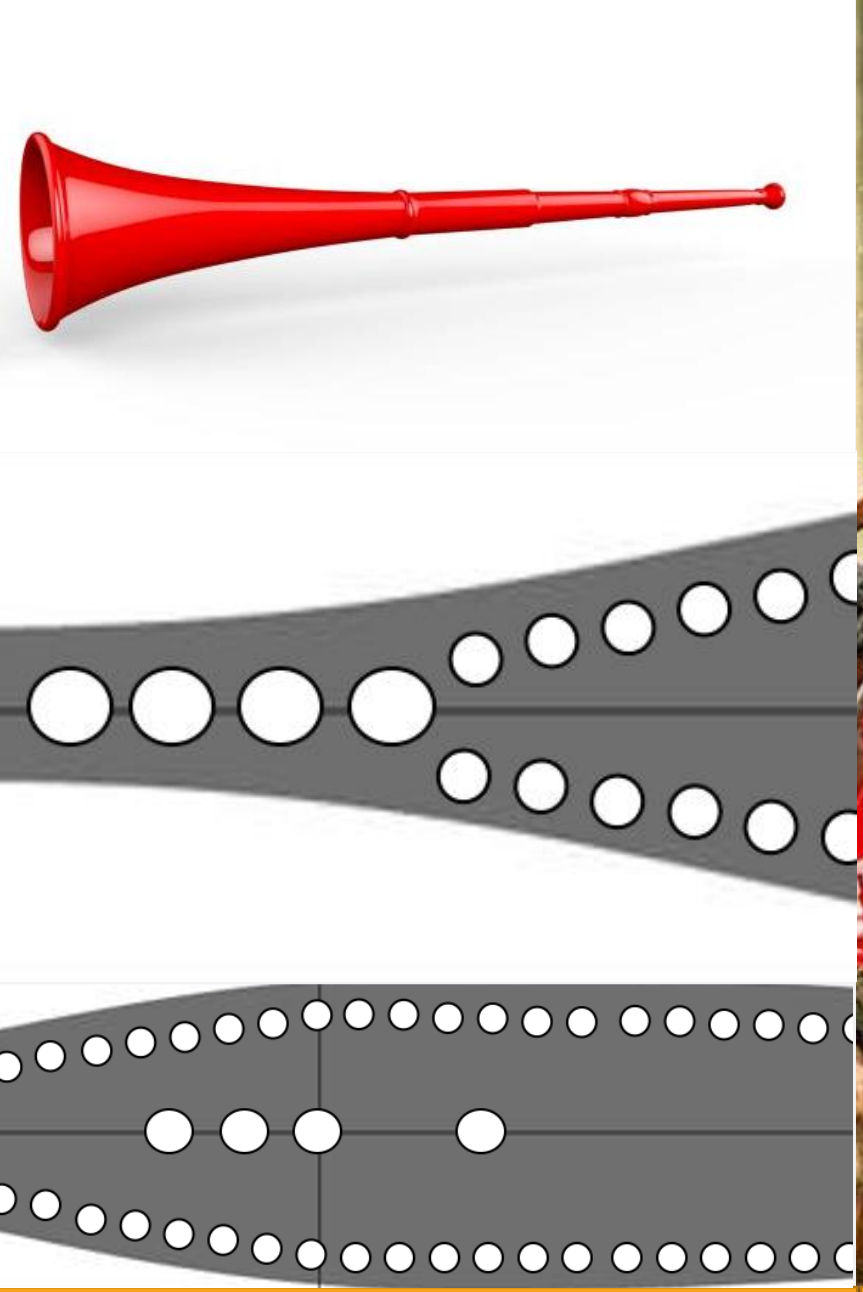


- Length of the boat
- Capacity of the boat
- Number of rowers

- Team selection
- Body weight, positions


Maintain Direction

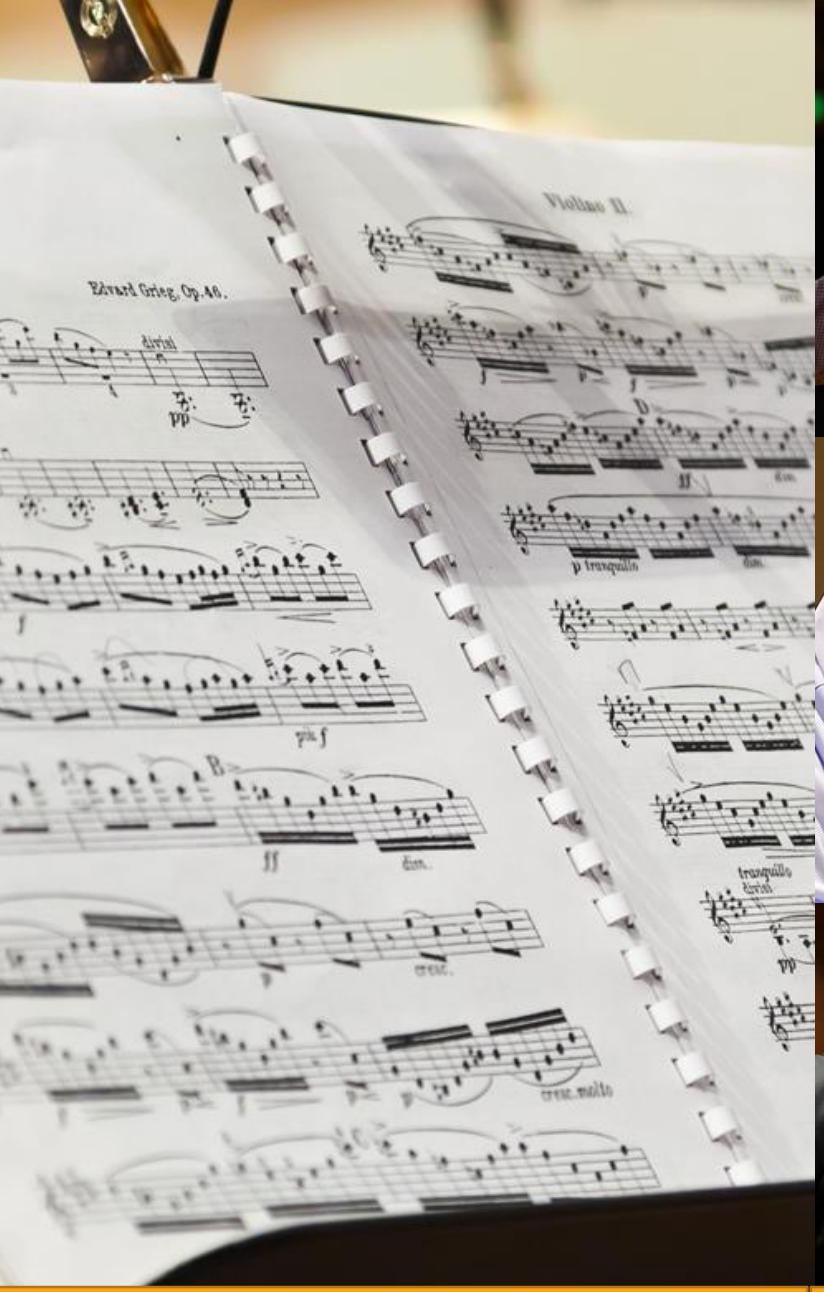
Orchestration



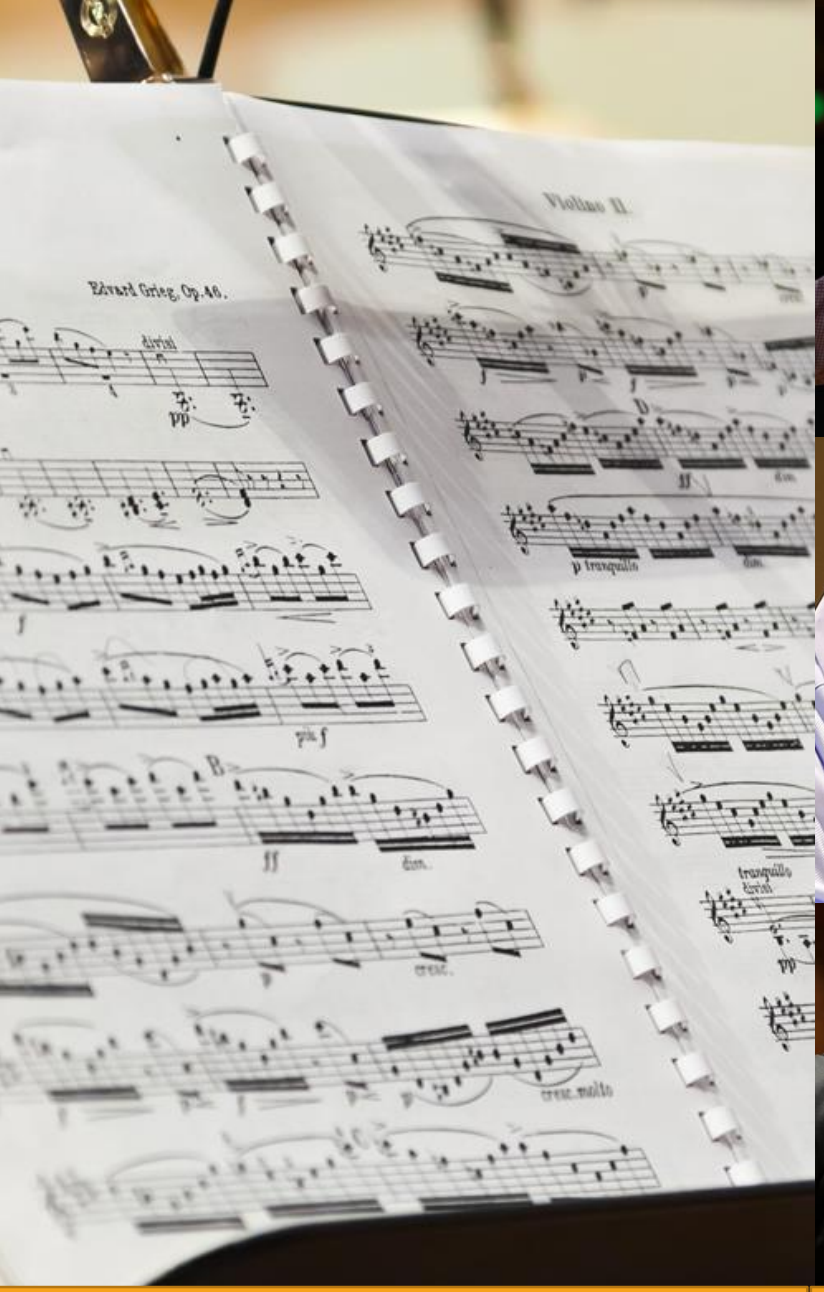
Plan

Executors

Orchestrator



Plan | Executors | Orchestrator



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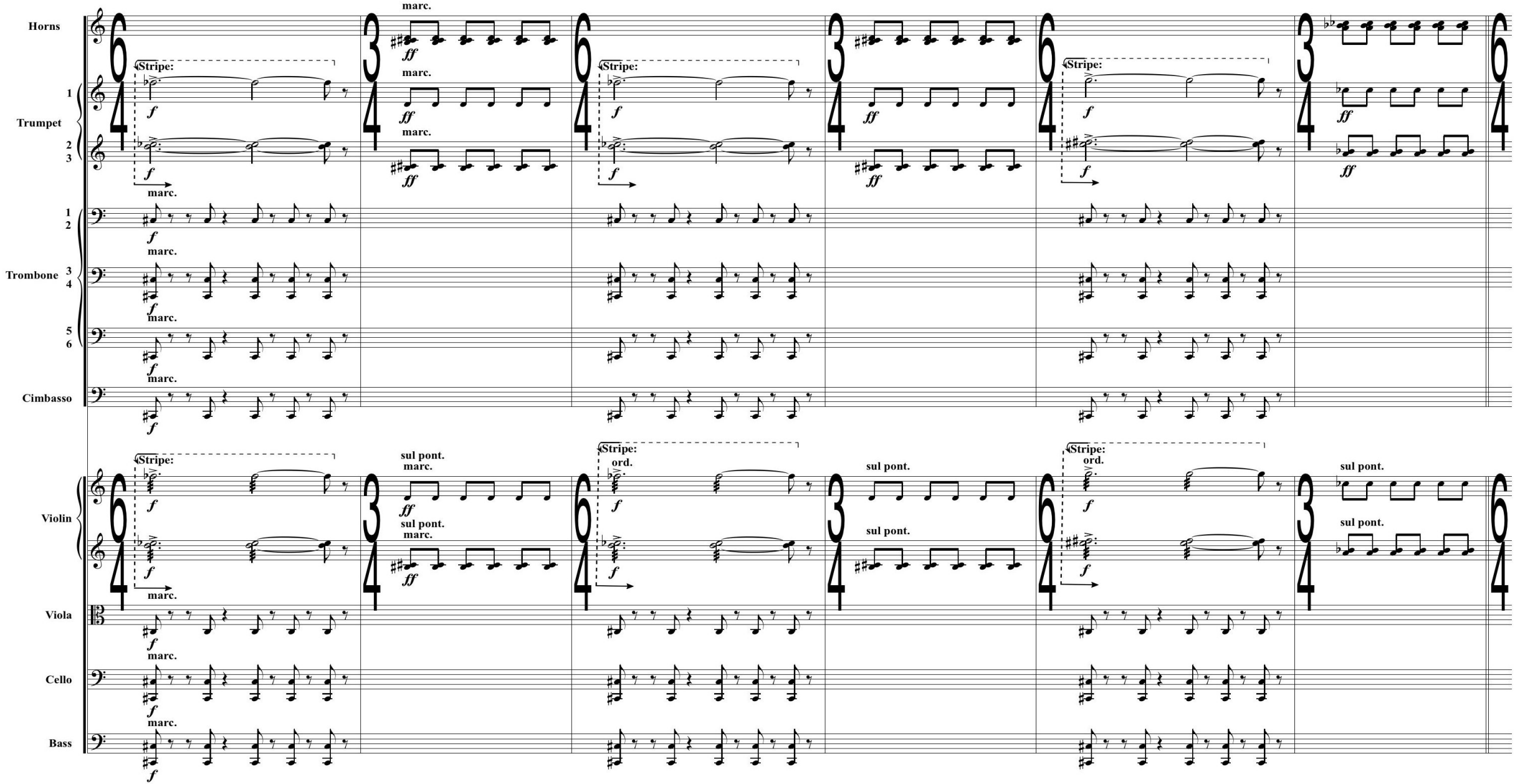
Horns
Trumpet
1
2
3
Trombone
1
2
3
4
5
6
Cimbasso
Violin
Viola
Cello
Bass
Stripe:
ord.
marc.
sul pont.
f
ff
1
2
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4
5
6

Develop the business leader within you

Widen your team's skill spectrum

Build assets, not liabilities

"Data science is all about asking interesting questions based on the data you have—or often the data you don't have."

Sarah Jarvis
Director of Applied Machine Learning
and Data Science at Secondmind

THANK YOU