GAURAV BOKIL

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OBJECTIVE

I'm passionate about pushing the limits of computational modelling and simulation through numerical methods, optimization, deep learning and extensive research.

EXPERIENCE

Jan 2021 – Present

Masters Intern – Basque Centre for Applied Mathematics

- *Research line*: Applied Analysis and PDEs
- *Project*: Approximation of Navier-Stokes equations using Deep Learning methods in Python

Feb 2019 – Aug 2020 (1 year 7 months)

Advanced Trainee – Altair Engineering

- Used the following HyperWorks products –
  - *HyperMesh* for pre-processing and discretization
  - *MotionView* to build multibody dynamic models
  - *MotionSolve* to run simulations.
  - *AcuSolve* to run coupled MBD-CFD simulations
  - *HyperStudy* for DOE and optimization
  - *OptiStruct* for FEA and structural optimization
  - *EDEM* for modelling particles and co-simulation
  - *HyperView & HyperGraph for post-processing*
- Quality assurance and testing of HyperWorks products
- Developed and tested *Python API* in *MotionView*
- Created new functionalities in MotionView using *Python*
- Created tutorials to display Python-MotionView capabilities

PUBLICATIONS

G. R. Bokil, S. B. Mane Deshmukh, ICIIIME 2017 Conference, "Prediction and Reduction of Automotive Disc Brake Squeal", "International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC)", ISSN: 2321-8169, PP: 1593 – 1599.

EDUCATION

M.Sc. in Computational Mechanics

- *BarcelonaTech (UPC), Spain*
- *Sept 2020 to present*

- Continuum mechanics
- Numerical methods for PDEs
- Finite Element Method
- Advanced fluid mechanics

Bachelor of Engineering (Mechanical)

- *University of Pune, India*
- *Aug 2014 to July 2018*
- ***GPA - 8.03*** *(As per MECD, Spain)*

- Engineering design, thermodynamics
- Material science, manufacturing

KEY SKILLS

- Altair HyperWorks Suite
- ANSYS Workbench & Fluent
- Python programming
- MATLAB
- CAD modelling

AWARDS

- National winning team of SAE INDIA E-BAJA 2016 competition

LANGUAGES

- Deutsch (Level – A2)
- English (IELTS – 8.0)