Vivek Chavan

M.Sc. Computer Aided Mechanical Engineering Student

I'm an Engineer with industrial work experience in the fields of Automotive Engineering, Numerical Modelling and CAE. I have worked in dynamic and multicultural teams in India and the UK. My objective is to apply my analytical skills and graduate education to industrial projects to make a meaningful impact.

📍 Aachen, NRW

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⌗ github.com/vivek9chavan

SKILLS

Data Science · Machine Learning · Deep Learning · Computer Vision · Python · TensorFlow · scikit learn · MATLAB · Computer Aided Engineering · Numerical Modelling · Optimisation · CFD · FEA · Virtual Analysis · Vehicle Engineering · Vehicle Testing · Six Sigma · Knowledge Transfer · Teamwork and Collaboration

LANGUAGES

English, Hindi, Marathi ●●●●●●
German ●●●○○○
Spanish ●○○○○○

ORGANISATIONS

AIESEC in Germany | Oct 2019 – Jan 2021
- Team Member and Event Marketing Manager

Toastmasters Aachen | Oct 2019 – Present
- Vice President– Public Relations & Webmaster
- Certified Competent Leader and Competent Communicator

INTERESTS

Public Speaking · Biohacking · Meditation and Yoga · Philosophy · Boxing and MMA · Fitness

EDUCATION

M.Sc. Computer Aided Mechanical Engineering
RWTH Aachen University | Germany | Oct 2019 – Present

- 10 Courses in Machine Learning, Data Science, and Artificial Intelligence (including voluntary additional subjects)

Bachelor of Engineering: Mechanical Engineering
Pune University | India | Aug 2010 – Jun 2014

WORK EXPERIENCE

CAE Analyst (Consultant)
Jaguar Land Rover | Gaydon, UK | May 2016 – Jun 2019

- Worked on numerical modelling for vehicle assessments
- Continuous coordination with the designers, suppliers and the physical testing team with iterative analysis–feedback loop
- Led work on improving splash prediction for full vehicle CFD models, followed by physical testing activities
- Received the JLR Extra Mile award for these efforts.

CAE Analyst (remotely working for Jaguar Land Rover)
Tata Technologies | Pune, India | May 2015 – Aug 2019

- Trained colleagues in Automotive Engineering and CAE applications
- Worked on system based integration of CAD and CAE assessments for early identification of potential failures in vehicles. Trained all members of the team on this methodology
- Worked on automating and standardizing the assessment procedure.

CERTIFICATES

TensorFlow Developer Certificate
TensorFlow Certificate Program | Jan 2021 – Jan 2024
- Issued by TensorFlow after passing the TensorFlow Developer Exam

Deep Learning and TensorFlow Developer Specialisations
DeepLearning.AI | Jan 2021
- Coursera: 4 & 5 Course specialisations, respectively

Lean Six Sigma Yellow Belt
Technical University of Munich | Aug 2018

PUBLICATIONS

Khapane, P., Chavan, V., and Ganeshwade, U.,
'Water Ingress Analysis and Splash Protection Evaluation for Vehicle Wading using Non-Classical CFD Simulation'
SAE International Journal of Passenger Cars–Mechanical Systems
10(1):183-194, 2017