JAFAR ALI HABSHEE

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Objective

To carry out my work proficiently, with being inclined towards the need of developing oneself as well as the organization.

Education

Examination	Year	Institution	%Marks/CGPA
10th	2008	Central Academy Udaipur, Rajasthan	84.2
12th	2010		80.4
B.Tech (Aerospace Engineering)	2010-2014	SRM University, Chennai	8.04
M.Tech (Mathematical Modeling and Simulation)	2017-Present	Center for Modeling and Simulation, Savitribai Phule Pune University	7.8 (1st Semester)

Work Experience

Service Engineer for Rolls Royce Aero Engines at QuEST Global Pvt. Ltd. (Jun 2015- Jun 2017)

- **Responsibilities in Workscope Creep team**
  1) Supporting investigations on finding the root cause ofdamage and subsequent remedial suggestion to the Aero engine/ operator/ airliner.
  2) Facilitating urgent engine operational requirements by delivering planning and maintenance documents when the engine is under built condition and not stripped for repairs.

- **Responsibilities in Life Cycle Cost team**
  1) Developing life cycle cost models and cases to develop schemes that result in reduction of cost incurred to RR during engine maintenance.
  2) Analyzing the part rejection and scrap mitigation by increasing either of the inspection or repair limit.

Skills

- R, Python, Scilab/Matlab, C (Basic), Excel VBA(basic)
- Ansys Workbench, OpenFOAM, Creo.

Projects done

- **Loan Prediction**
  To determine the loan sanction status of incoming users based on previous data. The problem is being solved by employing number of Machine Learning algorithms to arrive at best accuracy level. Current Accuracy – 79.89 ; Rank – 125

- **Multi-objective Simulated Annealing**
  Annealing is a concept from Metallurgy, where a hot material is cooled down slowly allowing the atoms to settle at a position where there is minimum energy. This concept is applied to solve computational problem, wherein it is taken forward for application to problems with many features/attributes and to select a feature which best describes the problem.

- **Design, development and analysis of a C shape wing with whale tubercles**
  A C wing reduces induced drag and tubercles on whale fin helps reduction in lift during sharp maneuvers. The project was carried out to study the combined effect of both using ANSYS FLUENT. The results from the simulation were experimentally tested in a subsonic wind tunnel.

- **Design of an active suspension system for a vehicle**
  Active suspension system which would dampen the intermittent oscillations of a vehicle within 5 seconds was designed in MATLAB. The simulation was completed on a ¼ vehicle body. Performance analysis was also carried out in ANSYS APDL.

- **Optimization of wall thickness for long fluid pipeline to reduce heat loss**
  Reduction of fluid heat loss through a long pipeline by optimizing its wall thickness in MATLAB and further verification using ANSYS Workbench

Publications

- Co-authored a paper on **SMART RUNWAYS- USE OF RESIDUAL VIBRATION ENERGY FROM AIR WAKE TO PRODUCE ELECTRICITY** published in IJESD journal in 2013. Link

- Co-authored a paper on **SMART RUNWAYS-USE OF THE RESIDUAL WAKES AND SEMI INFINITE IMPULSE TRANSMISSION TO PRODUCE ELECTRICITY** published in IJSRP journal in 2014 April edition. Link

Achievements

- Qualified **GATE 2014** and **GATE 2015** with **AIR 316**and **AIR 446** in Aerospace Engineering.
- Qualified to the second round of **AIRBUS- FLY YOUR IDEAS 2013**.
- Presented a paper on **ENHANCED SPACE BASED SOLAR POWER STATION – USING TOTAL INTERNAL REFLECTION** in INTERNATIONAL ASTRONAUTICAL CONFERENCE (IAC) at Beijing, China in 2013.
- Qualified as finalist for **Lunar Rover Challenge**(LRC'14) conducted by **Team Indus** at IIT MADRAS in Jan 2014.
- **5th**and **10th**among hundreds of teams in the intra collegiate Multi Disciplinary Project and Exhibition competition **"KONVOLVE 2012"** and **"KONVOLVE 2013"** respectively.
- Final Year Project presented in **QUEST INGENIUM 2014** held by Quest Global in June 2014.