

# Kishan Rasikbhai Akbari

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• <https://github.com/kishanAk21>

## OBJECTIVE

An engineer with a demonstrated history of working in the IT/Mechanical/Aerospace industry. In my professional career I have worked with some of the top engineering firms. Currently, I am exploring the field of Artificial Intelligent (AI) and Machine Learning (ML) and looking forward to implement it to solve the real world challenges.

## EDUCATION

### Master's Degree in Mechanical Engineering

Jul 2015 - Jul 2017

Indian Institute of Technology Madras, Chennai

### Bachelor's Degree in Mechanical Engineering

Jun 2011 - Jul 2015

Faculty of Technology and Engineering, Maharaja Sayajirao University of Baroda, Vadodara

## SKILLS

Programming:	Python, SQL, MATLAB
Data Tools/Techniques:	MS Excel, Tableau, Exploratory Data Analysis (EDA), ML, DL, NLP
CAD packages:	Solidworks, Auto CAD, Creo Parametric, CADfix
Simulation/Tools:	COMSOL Multiphysics, ANSYS, SC03, Siemens NX, Abaqus
Documentation:	MS Office, LATEX

## WORK EXPERIENCE

### Engineering Lead

Jan 2021 - Present

Infosys Ltd • Bangalore

- FE modelling and analysis of Gas Turbine Engine externals components.
- Working on the development of pipes damping prediction models using statistical techniques.

### Advanced Stress Engineer

Sep 2019 - Dec 2020

Rolls-Royce India Pvt Ltd • Bangalore

- Worked on FEA modelling and Stress analysis of Gas turbine Engine combustor components.
- Contributed to the combustor tiles casting defects data analysis and classification project. Worked on defect data exploration (EDA) and developed go/no-go classifier.

### Component Engineer Mechanical Analyst

Feb 2019 - Sep 2019

Rolls-Royce India Pvt Ltd • Bangalore

- Contributed to the development of on-fleet repair documents for mechanical components of Gas Turbine Engine.
- Supported design and optimisation of mechanical components for Gas Turbine Engine.

- Developed and implemented metal surface defect image classification models using Deep learning CNN techniques.
- Investigated the testing failure of gas turbine engine and proved the hypothesis behind the problem.
- Contributed to the development of automatic calculation tool as a part of process improvement initiative.

## **COURSES AND CERTIFICATIONS**

- Engineering Mathematics
- Computational Methods
- Data Manipulation with Python (DataCamp)
- Probability and Statistics
- Importing & Cleaning Data with Python (DataCamp)
- Data Visualisation with Python (DataCamp)

## **PROJECTS**

### **Data Science Repository**

- Developed a GitHub repository which includes various kind of data science problems solved using different statistical and ML techniques. This repository is a personal project for educational purpose.

### **Quantitative Non-Destructive Testing of Metal Thermal Barrier Coating**

- This project covers implementation of infrared thermography for structural health monitoring of thermal barrier coatings used in aerospace applications.

## **AWARDS AND HONOURS**

### **Rolls-Royce Silver Award**

2019

- Received prestigious Rolls-Royce Silver Award for aero engine compressor blades lifing work.

### **University Gold Medal**

2015

- Awarded Gold Medal for excellent achievement in the Design of Machine Element course from M.S. University.

### **ABB JDF Scholarship**

2012

- Awarded ABB JDF scholarship for exceptional academic as well as extra-curricular record.