

# DHEERAJ GUDI

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## Skills

**Languages** : C/C++, Python, R, SQL, PL/SQL, MySQL  
**Mathematics and Statistics** : Linear Algebra, Calculus, Probability Theory, Statistical Methods, Hypothesis Testing  
**Data Science Stack** : Pandas, NumPy, dplyr (R), Data.table (R), Matplotlib, Seaborn, Plotly(R), ggplot2(R), TensorFlow, PyTorch, NLTK  
**Software and Tools** : Google Cloud Platform (GCP), SAP ABAP, AutoCAD, Solidworks

## Work Experience

### Tata Consultancy Services

07/2021 – 09/2023

#### *System Engineer (Full Time)*

*Bangalore, India.*

- Specialized in SAP development with a focus on RICEF components for Takeda and AbbVie projects, achieving substantial improvements in operational efficiency and data management.
- Spearheaded IDOC creation and debugging for Takeda, ensuring seamless data exchange and critical project success, achieving a 25% reduction in data exchange errors, enhancing reliability and client satisfaction.
- Successfully developed programs for ALV reports in AbbVie projects, significantly improving business operations.
- Implemented BAPIs and BADIs to drive significant business improvements, resulting in a measurable impact on operational efficiency and business performance.
- Mastered the design and customization of Adobe forms, various report types (classical, ALV, interactive), and utilized Object-Oriented Programming (OOP) with ABAP to deliver robust functionalities for Takeda and AbbVie, increasing user satisfaction by 35% through enhanced form functionality and reporting capabilities.
- Enhanced ABAP query efficiency, corrected and edited 50+ code modules to meet client requirements, and ensured a 100% compliance rate with industry best practices.

## Education

### Durham University, Durham, UK

09/2023 – 09/2024

#### *Master of Science (MSc) in Data Science*

- Relevant Coursework: Python, Statistics, R Programming, Supervised and Unsupervised Machine Learning, Data Exploration, Visualization, Text Mining, Language Analysis, Ethics in data science and Strategic Leadership.

### Manipal University, Jaipur, India

11/2021 – 12/2023

#### *Master of Computer Applications (MCA) – Online*

*CGPA: 8.78/10*

- Relevant Coursework: C Programming, Mathematics, DBMS, Computer Architecture, OS, Advanced Data Structures, Web Technologies, Computer Networks, Probability and Statistics, Java, Analysis and Design of Algorithms, Open-Source DB Systems, Advanced Software Engineering and Cloud DB System.

### SASTRA Deemed University, Thanjavur, India

08/2017 – 10/2021

#### *Bachelor of Technology (Honours) in Mechanical Engineering*

*CGPA: 8.4335/10*

- Achieved Dean's Merit List recognition and honours distinction among fellow honourees.

## Projects

- **Dynamics and control of the tethered multi-robot system.** | *Control systems, Webots, Robotics*: Designed and implemented dynamic systems with UAVs, UGVs, and cable-control winches.
- **Facial Emotion Analysis and Terrifying Object Detection for Crime Detection** | *Python, OpenCV*: Developed a system for object recognition and facial emotion analysis, improving crime detection by analyzing video feeds with 90% accuracy.
- **Rating Prediction from Existing Reviews Using NLP** | *ML, Python, NLP*: Leveraged ML and NLP to predict ratings from reviews, achieving up to 85% accuracy and significantly enhancing decision-making processes.
- **Analysis of Junior Cricket Performance** | *Web Scrapping, Selenium, Python, ML, DL*: Applied statistical methods, data visualization, and machine learning to optimize player performance and identify top under 13 talents for Durham County.

## Publications

### Numerical investigation on the performance of triple pipe heat exchanger with helical fins and twisted tape inserts

*Springer Nature Singapore*

02/2021 - 11/2021

Presented at a New Delhi conference, it offers insights into enhanced triple pipe heat exchanger efficiency.