

# RITHIKA F JOHNSON

Phone: +91 96322 59112  
Email ID: rithikajohnsonoff@gmail.com  
LinkedIn: [rithikafjohnson](#)  
Website: [rithikafjohnson.github.io/Rithika-s-Portfolio/](#)  
Github: [rithikafjohnson](#)

EDUCATION	<b>Bachelor of Engineering in Computer Science and Engineering</b>	CMR Institute of Technology (affiliated to VTU), Bangalore	8.19/10	2018-2022
	<b>Senior Secondary Education</b>	Royale Concorde International School, Bangalore	83.8%	2017-2018
	<b>Higher Secondary Education</b>	Sacred Heart Girls' High School, Bangalore	88.17%	2015-2016
EXPERIENCE	<b>Data Analyst 1, S&amp;P Global, Bangalore</b> August 2022 - Present			
	<ul style="list-style-type: none"><li>Among my responsibilities are analyzing data and resolving errors related to crop science and other internal projects. I'm in the process of automating these calculations and it will save at least a month of time hence faster delivery of data. to the clients.</li><li>I perform data analytics tasks and provide the required data to clients every day using Alteryx Designer, Tableau, etc.</li></ul>			
	<b>R&amp;A, Technical and Data Design Intern, S&amp;P Global, Bangalore</b> March 2022 - July 2022			
	<ul style="list-style-type: none"><li>I helped migrate data migration from SSMS to Snowflake by creating views, stored procedures, etc. This aided the company to access, analyze, and manage data easily.</li><li>I also assisted the data team by building tools in Python and automating them using VisualCron. This enabled them to switch from legacy methods to novel ones thus saving a lot of time and effort.</li></ul>			
PROJECTS	<b>Data Science and Business Analytics Intern, The Spark Foundation, Remote</b> September 2021 - October 2021			
	<ul style="list-style-type: none"><li>Performed Exploratory Data Analysis on IPL Dataset to choose the players to be endorsed by companies</li><li>Predicted if a team would win or lose a match based on parameters such as venue, toss, players, etc.</li></ul>			
	<b>Generating Abstract Art from Hand Drawn Sketches using GANs</b> October 2021 - July 2022			
	<ul style="list-style-type: none"><li>To create abstract art from hand-drawn sketches, we compared CGAN, Cycle GAN, and Pix2Pix GAN models with different image sharpening methods, such as Highboost Filter and Laplacian filter. The best model was chosen based on SSIM and survey results.</li><li>This will foster creativity and provide the project they are working on with a fresh viewpoint for artists, filmmakers, etc. can be applied as a filter on applications like Instagram.</li></ul>			
	<b>Portfolio Website for a Textile Designer</b> April 2021 - June 2021			
	<ul style="list-style-type: none"><li>Using MERN Stack, we created a portfolio website for a self-employed textile designer. In order to help the website designer discover the areas where he can improve,</li><li>BERT was utilized on the backend. We highlighted the positive reviews, which increased the number of businesses contacting the designer.</li></ul>			
	<b>Autonomous Farming System</b> February 2020 - August 2020			
	<ul style="list-style-type: none"><li>In this project, we aimed to build affordable UAVs for farmers that can be used to detect and provide the appropriate care for sick crops.</li><li>was responsible for selecting a combination of image segmentation techniques like fuzzy C-Means, K-Means Clustering, and classification algorithms like SOM, SVM, and so on, in order to detect diseases in rice crops using the areal footage taken by the quadcopter.</li><li>The geotagging was done using QGround Control.</li></ul>			
PUBLICATIONS	<b>Predicting the number of new cases of Covid-19 in India using Survival Analysis and LSTM, IEEE Xplore</b> A. S. R. F. Johnson, R. k. N, M. T R and V. V, "Predicting the number of new cases of COVID-19 in India using Survival Analysis and LSTM," 2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), 2021, pp. 1-4, doi: 10.1109/I-SMAC52330.2021.9640899.			
	<b>Generating Abstract Art from Hand Drawn Sketches using GANs, Springer</b> The paper has been presented at the 6th International Joint Conference on Advances in Computational Intelligence (IJCACI 2022) and will soon be published in Springer Book Series, "Algorithms for Intelligent Systems"			
POSITIONS OF RESPONSIBILITY	<b>Student Coordinator of Association of Computer Engineers Club, CMR Institute of Technology, Bangalore</b> August 2019 - June 2022			
	<ul style="list-style-type: none"><li>organized a range of activities and seminars to help my peers learn about and apply the most recent technology innovations.</li></ul>			
	<b>Class Representative, CMR Institute of Technology, Bangalore</b> August 2019 - July 2020			
	<ul style="list-style-type: none"><li>organized and oversaw class activities to assist professors with the material.</li><li>addressed the issues students were having by communicating with the professors and taking the appropriate action</li></ul>			

---

## **VOLUNTEERING EXPERIENCE**

### **Anbu Illam, Bangalore**

2014–2016, October 2022–Present

- I teach Computer Science to encourage more young women to embrace technology
- 

## **TECHNICAL SKILLS**

### **Languages**

Python, C, Java, Kotlin, SQL, HTML, CSS, JavaScript

### **Software**

Android Studio, Django, Alteryx Designer, Tableau, MS Excel, VisualCron

### **Databases**

Mysql, Postgresql, Snowflake, MongoDB

---

## **TRAINING**

### **Workshops**

- Neural Networks, Indian Institute of Science, Bangalore
- Ethical Hacking, Indian Institute of Science, Bangalore

### **Online Courses**

Data Structures in Python, Machine Learning, Neural Networks, Introduction to Deep Learning, Time Series and Forecasting using Deep Learning, Linear Algebra, Probability, Mathematics for Machine Learning, Cloud Computing

---

## **AWARDS**

### **Technical Achievements**

- **Best Final Year Project**, CMR Institute of Technology, 2022
- **3rd Prize in TYL Python Hackathon**, CMR Institute of Technology, 2021
- **Ranked in the top 10 in Hash Code**, PES University, 2020–21, a nationwide 24hr hackathon with 600+ teams,
- **2nd Prize in TYL Python Hackathon**, CMR Institute of Technology, 2020
- **2nd Prize for Mini Project**, CMR Institute of Technology, 2019
- **Sister Immaculata Prize for Mathematics**, Sacred Heart Girls' High School, 2016
- **21st Rank in a nationwide Math Scholarship Exam**, Dreamworld India, 2013–14

### **Non-Technical Achievements**

**Salon, TEDX-CMRIT**, CMR Institute of Technology, 2018, I was one among the ten speakers chosen, where I presented my original poem

---