



# Ranji Raj Nair

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## Social Network

YouTube Channel  
 LinkedIn Profile

## Languages

German ● ● ● ● ●  
 English ● ● ● ● ●

## Programming Skills

Python ● ● ● ● ●  
 R ● ● ● ● ●  
 Java ● ● ● ● ●  
 C ● ● ● ● ●  
 Tableau ● ● ● ● ●  
 SQL ● ● ● ● ●

## Soft Skills

Teaching ● ● ● ● ●  
 Communication ● ● ● ● ●  
 Analytical ● ● ● ● ●  
 Organizational ● ● ● ● ●  
 Visualization ● ● ● ● ●  
 Story Telling ● ● ● ● ●

## Other Competencies

Google Colab ● ● ● ● ●  
 Machine Learning ● ● ● ● ●  
 Deep Learning ● ● ● ● ●  
 Keras ● ● ● ● ●  
 Tensorflow ● ● ● ● ●  
 LaTeX ● ● ● ● ●

## Working Experience

2016 – 2018 **QualityKiosk Technologies Pvt.Ltd.** Role: Test Engineer  
Virtualization of services for various private banking applications by creating mock responses and stub creation using licensed and open source tools to test web services. Performed system monitoring to determine the performance bottlenecks through client coordination.

## Education

### Study Programmes

2019 – **Master Studies** Otto von Guericke University  
pursuing Focus: Data and Knowledge Engineering  
2012 – 2016 **Bachelor Studies** Datta Meghe College of Engineering  
Focus: Information Technology  
2000 – 2012 **Primary and Secondary Schooling** SIO's Vani Vidyalaya

## Publications

2018 **Computer Organization and Architecture**  
*TEK97*  
Book on Microprocessor Architecture and Techniques  
2018 **Analysis of Algorithms**  
*TEK97*  
Book on common data structure algorithms  
2017 **Structured Programming Approach**  
*TEK97*  
Book on Basic C language practices  
2017 **Operating Systems**  
*TEK97*  
Book on internals of OS

## Research Papers

2020 **Android Application for detecting morphed passport images**  
*Otto von Guericke University*  
Demonstrating how a live image of the user face acquired at uncontrolled environment, can be used to restore the de-morphed image from the morphed image stored in the travel document.  
2019 **Biometric benchmark based on Handwriting and Hand Geometry Modalities**  
*Otto von Guericke University*  
Identification of inter-class and intra-class variance including the impact of forgeries concerning security aspect

## Awards

2017 Knowledge Transfer session QualityKiosk Technologies  
2016 Student of the Year Datta Meghe College of Engineering  
2015 Second rank Academic Performer Datta Meghe College of Engineering

## Projects

Master Work Android application to detect morphed passport images.  
Work Service Virtualization of Banking Services at Techprocess Pvt.Ltd.  
Bachelor Work Scalability and Load Testing at HDFC Bank  
Bachelor Information Retrieval using Web Search Engine Optimization  
Bachelor E-commerce website using PHP with connection to PayPal SandBox  
Bachelor Coffee shop website development

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## Other Mentions —

- ✦ Mentioned in Mumbai Mirror
- ✦ Student Seminar

## Certifications

2020	<b>Introduction to R Programming</b> <span>Udemy</span> Basics of tibble, vectors, matrices, ggplot2, and other data visualizations.
2019	<b>Introduction to Python Programming</b> <span>MySirG.com</span> Basics of python data types and data structures, flow control and iterative control, OOPS in Python.
2015	<b>Oracle Certified Professional Java SE 6 Programmer</b> <span>Oracle</span> Core and advanced concepts in Java related to internals of JVM.