

# Ranji Raj Nair

Arnold-Zweig Street.30, 39120. Magdeburg, Germany

+49 1590 6347223

@ ranjiraj4141@gmail.com

## Social Network



YouTube Channel

Linkedin Profile



Github Profile

## Languages

German

English

# Programming Skills

Python  $\mathbf{R}$ 

Tableau SQL

## Soft Skills

Teaching

Communication Analytical

## Other Competencies -

Machine Learning Deep Learning Heroku Tensorflow Linux

Kubernetes

Scikit-learn Flask

statsmodels.api

Docker

## Working Experience

2016 - 2018QualityKiosk 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

Focus: Data and Knowledge Engineering pursuing

2012 - 2016**Bachelor Studies** Datta Meghe College of Engineering

Focus: Information Technology

2000 - 2012Primary and Secondary Schooling SIO's Vani Vidyalaya

## **Projects**

Master-Global Pandemic Predictor - a simple linear regression machine learn-Voluntary ing model for predicting the total cases of pandemic from OWID Task dataset. Built using Python libraries (Pandas, NumPy, Statsmodels,

Pickle, Matplotlib, Seaborn). Model is further represented as a Flask Web Application. Later deployed to Heroku PaaS on Cloud Platform

(Webserver used: Waitress)

Master emojivoto - a simple example application containing three dockerized

microservices and a website. Website illustrating list of emojis you can vote for and a leaderboard with the emojis with the highest votes with the full-fledged application running on SysEleven cluster. (Application environment was on Linux, Ubuntu 18.04 distribution. Kubernetes components used: Ingress, Helm, Pods, Deployments, Services, Hori-

zontal Pod Autoscaler)

Master Android application to detect morphed passport images. (Development

> of Android application called 'Demorpher' which takes the user image and compares with a pre-existing morphed image. The resultant would

produce the demorphed image with matching accuracy.)

Work Service Virtualization of Banking Services at Techprocess Pvt.Ltd.

Work Scalability and Load Testing at HDFC Bank

## 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 Bio-metric benchmark based on Handwriting and Hand Ge-

ometry Modalities

Otto von Guericke University

Identification of inter-class and intra-class variance including the impact of forgeries concerning security aspect.

# Ranji Raj Nair

# Concepts -

- ★ K-means Clustering
- Linear Regression
- Logistic Regression

## **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

Operating Systems

TEK97

Book on internals of OS

#### Certifications

2020	Time Series Analysis with R Great Learning Academy
	Basics of time series analytics, Approaches used for Time Series fore-
	casting, Decomposition Method, Irregularity in decomposition, Model
	Forecast theory, Exponential Smoothing function.
2020	Introduction to R Programming Udemy
	Basics of tibble, vectors, matrices, ggplot2, and other data visualiza-
2019	tions. Introduction to Python Programming MySirG.com
	Writing code using PEP8 standard, Basics of python data types and
	data structures, NumPy, Pandas, Matplotlib, Seaborn, Object-oriented concepts in Python.