

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





Programming Skills

> Python

r R



メ SQL



Soft Skills

***** Teaching

Communication

Analytical



Concepts -

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

Working Experience

2016 - 2018 Quality Kiosk Technologies Pvt.Ltd.

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.

Role: Test Engineer

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

Projects

Master-Voluntary Task Global Pandemic Predictor - a simple linear regression machine learning model for predicting the total cases of pandemic from OWID 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, Version control: git bash)

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 im-

pact of forgeries concerning security aspect.

Ranji Raj Nair

Other Competencies -

»K	Machine Learning	•	•	•	
»K	Deep Learning	•	•		
» [€]	Heroku	•			
n ^k	Tensorflow	•			
n ^k	Linux	•	•	•	
n ^k	Docker	•	•		
д ^К	Kubernetes	•	•	•	
д ^К	Git	•	•		
д ^К	Scikit-learn	•	•		
» ^k	Flask	•	•		
× ^k	statsmodels.api	•	•		

Publications

2018	Computer Organization and Architecture <i>TEK97</i>	
	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 $TEK97$	

Certifications

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