

# CHETHAN MYSURU RADHAKRISHNA

## Pursuing Master's in Data and Knowledge Engineering

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## ABOUT ME!

*I am a data science enthusiast with an inclination towards visual exploration of trends in data. I am also a skilled web developer with a collective experience of 4.5 years. However, I believe in the idea that "What we know is a drop and what we don't know is an ocean".*

## PROJECTS

### Small Vessel Segmentation using Deformation-aware Semi-supervised learning

Otto-von-Guericke University

April 2021 - Ongoing

Application of DS6 Deformation-aware Semi-supervised learning published by Soumick Chatterjee et.al., to 7T MRA images and improvement of segmentation quality by Max Intensity Projection (MIP) comparisons.

Technologies Used: Python, PyTorch, nibabel, scikit-image, cuda

### Interpretable Machine Learning to Understand Participant Evolution in Longitudinal Cohort Study Data

Otto-von-Guericke University

October 2019 - March 2020

The project aims at identifying evolutionary trends in longitudinal cohort data of a German population in Pomerania. The study focuses on explainable AI to explore the results of a machine learning model to derive critical factors influencing the diagnosis of Hepatic Steatosis. Worked on pre-processing, R-API development and visualization of model results using react-redux dashboard.

Technologies Used: R, react.js, redux, saga, canvas.js(for interactive graph visualizations)

### Information Retrieval System

Otto-von-Guericke University

October 2019 - January 2020

This is a console java application which indexes files and directories and allows users to execute boolean queries on them. Here we used Apache Lucene to tokenize, index and query text in a directory(nested) or files. The application aims at achieving disambiguation of search terms and ranking of results based on relevance score.

Technologies Used: Apache Lucene, java, maven

## EDUCATION

### M.Sc. in Data and Knowledge Engineering

Otto-von-Guericke University, Magdeburg

2019 - 2022 (Ongoing)

Coursework:

- Machine Learning
- Data Mining
- Advanced Topics in Data Mining(Stream Mining)
- Visual Analytics
- Knowledge Engineering and Digital Humanities
- Deep Learning
- Swarm Intelligence
- Information Retrieval
- Distributed Data Management
- Data Management for Engineering Applications

### B.E. in Computer Science and Engineering

Vidyavardhaka College of Engineering, India

2012 - 2016

## SKILLS

Programming:

Python

R

SQL

Splunk

mongoDB

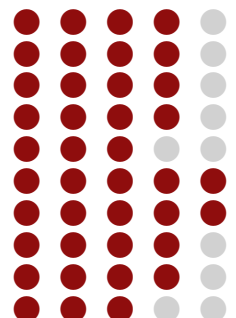
Node.js

React.js

C#

C++

Java



# Gesture Recognition For Interactive Systems Using Kinect V2

Vidhyavardhaka College of Engineering

📅 November 2015 - April 2016

Developed a WPF application to recognize user gestures using Microsoft Kinect V2 sensor. The application binds different mouse and keyboard inputs to gestures performed by users and thereby allowing them to interact with the system. Authentication of users is performed with face recognition algorithm developed using PCA(Principal Component Analysis) to compare grey scale images of faces.

Technologies Used: .NET framework 4.5, WPF, Kinect V2 SDK, C#

## EXPERIENCE

### Big Data Analyst Intern

Bosch Engineering GmbH

📅 April 2021 – September 2021 📍 Abstatt

Worked as an intern on big-data analysis in project management metrics. Created complex data preparation and wrangling queries and interactive dashboard visualizations in Splunk Enterprise tool. These visualizations are used every day by various levels of management to track and analyse the progress of several ongoing projects at Bosch Engineering both in Germany and in the US. Also, worked on automatic dashboard deployment scripts in python.

Technologies: Splunk, Python, XML

### Software Engineer

Happiest Minds Technologies Pvt Ltd

📅 October 2016 – January 2019 📍 Bengaluru, India

Contributed as a full stack web developer. Worked on ASP.NET MVC applications and Web API services. Worked on react.js and redux to implement stateful front-end designs. Worked exclusively on Health Care domain with the knowledge of online data exchange standards such as HL7. Worked on AWS EC2, S3 buckets, Simple Mail Service and Lambda(for deploying micro services). Interacted with clients to understand requirements and effectively communicated the innovative ideas to solve their problems.

Technologies: ASP.NET MVC/WebAPI, C, Reactjs, nodejs, AWS

## PUBLICATIONS

### 📄 Journal Article

- Chethan M R Adarsh M V Akarsh M S Karunesh Gurkar, Prashanth Kumar (Guide) (2016). "Gesture Recognition for Interactive Systems Using Kinect v2". In: *International Journal of Innovative Research in Computer and Communication Engineering (IJIRCC)*, 4(5):9186–9191, 05 2016. ISSN: 2320-9801. DOI: 10.15680/IJIRCC.2015.0405108. URL: <http://ijircc.com/admin/main/storage/app/pdf/ImTe2rGj2atzpnAISAWXv8svf8kR7qlAwFWd7nc.pdf>.

## ACHIEVEMENTS



'Individual Excellence Award' for outstanding contribution to the project and customer happiness.



'Mindful Egg Head Award' for demonstrating good composure and interpersonal skills.

Libraries:

Scikit-Learn

Keras

Tensorflow

PyTorch

NLTK

spaCy

gensim

IDEs:

Visual Studio

Eclipse

Jupyter

Google Colab

Version Control and CICD:

Git Lab

TFS

Octopus

Jenkins

Docker

### Software Developer - Work Student

Metratec GmbH

📅 June 2019-Feb 2021 📍 Magdeburg

Worked as a full stack web developer. Handled API integration with react-redux dashboards. worked on real time data using web sockets. worked on event sourcing and re-Solve(a CQRS framework built using node.js). Managed Gitlab pipeline and docker configurations with yaml.

Technologies: Reactjs, nodejs, reSolve, web sockets, node-red

## LANGUAGES

English



Kannada



Hindi



German

