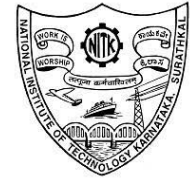# Sachin Shivaji Doddamani | 222CS028

National Institute of Technology, Karnataka

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Education

Program	Institution	%/CGPA	Year
M.Tech - Computer Science & Engineering	NITK, Surathkal	7.29	2022-24
B.E - Computer Science & Engineering	Government Engineering College, Chamarajanagar	7.45	2017-21

Key Projects

Semi-automatic Depth-Map Generation of Images using Random Walk Segmentation　　　**May 2021**
Guide: Prof. Radhika B　　　*B.E Project*

- Created a model for automatic depth map generation from images in MATLAB with semi or least-human intervention. Implemented the project using Laplacian Matrix and Random walk

Crop Production and Yield Prediction in Karnataka State with ML　　　**Mar 2023**
Guide: Prof. Dr. Shashidhar Koolagudi　　　*M.Tech project*

- Employed EDA and machine learning solutions to forecast crop yields using Random Forest and Gradient Boosting regression

Anomaly Detection in E-wallet Transactions To Prevent Money Laundering　　　**Nov 2023**
Guide: Prof. Dr. Biswajit R. Bhowmik　　　*M.Tech project*

- Conducted a background study on e-Wallet anomalies. Employed oversampling and threshold moving to address dataset imbalance and robust anomaly detection using logistic regression, gradient boost, and XGBoost.

Image compression using Singular Value Decomposition　　　**Oct 2023**
Personal Project

- Created image compression technique using SVD in Python with numpy and opencv libraries.

Movie Recommendation System with Content-Based Filtering　　　**Nov 2023**
Personal Project

- TF-IDF Vectorization was used to convert textual data i.e, plot summaries into numerical vectors, and cosine similarity was then applied to quantify the similarity between movies based on cosine of the angle between two vectors

Technical Skills

- Statistical techniques and Machine Learning, Deep Learning with Keras and TensorFlow
- MongoDB and MySQL Proficiency
- FinTech Ecosystem
- Numpy and linalg library, NLP with NLTK

Positions of Responsibility

- **Class Representative:** B.E 2nd year at GEC, Chamarajanagar
- **Teaching assistant:** BRICS Lab at NITK, Surathkal (July 2023-Present).

Scholastic Achievements

Publication: FinTech Revolution in Bharat - ICACIT-2023, Springer Nature

PGCET: Excelled in Karnatakta PGCET engineering stream rank of 24 in the year 2022

Interactive Seminars: Successfully conducted and presented interactive seminars *GPUs in Tech and Everyday Life* at GEC Chamarajanagar

Extra Curricular

Articles and blogs: Authored LinkedIn articles on diverse topics in the tech industry and AI methodologies

Hudukata Hudugata: Participation in the treasure hunt organized by the NITK Kannada Vedike