

CHAKRADHAR VANARASI

International Institute of Information Technology, Bangalore

+91 7729962003 [Mail](#) [LinkedIn](#) [GitHub](#)

Education

International Institute of Information Technology Bangalore

Nov 2020 – June 2025

Integrated in Computer Science

3.10/4.00

Narayana Junior College

2018 – 2020

M.P.C

96.8 %

Projects

Classification of Heart Beats using EMD-Generated 2D Grayscale Images | *Python, Machine Learning* July 2023

- Developed a novel approach combining signal processing and machine learning to convert 1-D medical data into 2-D grayscale images, enhancing data representation and interpretability.
- Implemented feature extraction using Local Binary Pattern (LBP) to extract detailed texture information from the images, resulting in accurate classification of normal and abnormal heartbeats. Collaborated as a team of two and achieved an 84.43% accuracy in heartbeat classification

Estimating Land Surface Temperature (LST) and Modeling with Various Indices | *JS, Python* July 2023

- Conducted a remote sensing analysis using Landsat 8 data and various indices to estimate LST. The study provided valuable insights into the thermal characteristics of the land surface using Google Earth Engine (GEE).
- Developed and implemented various regression models for accurate LST prediction using selected indices. Collaborated with team members to analyze LST relationships with various indices, contributing to informed decision-making in areas like environmental monitoring, urban planning, and agriculture.

Natural Language Processing Project: Harsh Comment Classification | *Machine Learning* December 2022

- Build machine learning models that can classify bad text comments. The purpose of this project is to create models that can help identify and flag inappropriate or harmful comments online, potentially assisting in improving online communities' overall tone and safety.
- Pre-processed the data by using natural language processing (NLP) techniques to extract relevant features from the text data. Then used these features to train the classification model to predict the class of the comments.

Library Database Management System | *Java, MySQL* May 2022

- Designed a sample Library Management System using Java and MySQL to help manage the operations of a library.
- Overall, the project of SQL for a library management system would involve designing and implementing a database schema, and writing SQL queries to manage data in the database.

Online Banking Management System | *C, Socket Programming* May 2022

- Designed a sample Banking Management System using C and Socket programming. The project utilizes file storage for storing account transaction details and customer information.
- Implemented a secure login system with password-protected administrative access to manage user accounts. Developed basic functionalities including account creation, money transfers, balance inquiries, and transaction history.

Technical Skills

Languages: C, C++, Python, Java, MySQL, HTML, CSS, Java Script

Developer Tools: Circuit Verse, VScode, GitHub, Linux, Kaggle, Google Earth Engine, QGIS, GrassGIS, Jenkins

Libraries/Frameworks: Numpy, Pandas, SDL, Sklearn, OpenCV, Pytorch

Relevant Coursework

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|------------------------|-------------------------|------------------------------------|--------------------------|
| • Data Structures | • Systems Programming | • Geographical Information Systems | • Visual Recognition |
| • Software Methodology | • Computer Architecture | | • Privacy in Digital Age |
| • Database Management | • Machine Learning | | |

Achievements / Extracurricular

- Achieved a percentile of 99.43 on the 2020 JEE Mains exam
- Achieved a rank of 8420 on the 2020 JEE Advanced test
- Volunteered for Infin8 the Annual Cultural Fest of IIITB
- Volunteered for Badminton for Spandan (College Sports fest)