

# VINOD SURESH BADNI

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Profiles:

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## PROFESSIONAL SUMMARY

Recent BE Computer Science graduate from KLE Technological University with a strong foundation in data structures and algorithms and Object-Oriented Programming. I am passionate about software development. Proficient in C, C++, Python, HTML, and CSS. I am open to work and eager to take advantage of my skills in product development in the industry. I am a flexible, motivated, quick learner, and responsible person, I ensure that my work aligns with the objectives and ethics of the Organization.

## EDUCATION

BE in Computer Science & Engineering

**KLE TECHNOLOGICAL UNIVERSITY**

CGPA: 7.68

Hubballi-2025

Pre-University in PCMB

**SPDCL Com Res PU College**

Percentage: 94%

Chandargi-2021

Higher Secondary Examination - Class X

**S S K Eng Med High School**

Percentage: 87.68%

Shigli-2019

## SKILLS

- **Programming Languages:** C, C++, Python
- **HTML, CSS, Git**
- **Libraries and Frameworks:** TensorFlow, Pytorch
- **Database:** SQL, NoSQL(MongoDB)
- **Areas of Interest:** Software Engineer, Software Developer, AI/ML Engineer.
- **Technical Skills:** Data Structures & Algorithms, Machine Learning, Data Science, Object Oriented Programming, Operating Systems, Computer Networks.
- **Soft Skills:** Problem solving, teamwork, leadership, communication, self-learning, collaboration, adaptability.

## EXPERIENCE

Project Intern

**University of Borås, Sweden**

Feb-2025

Hubballi

Automated textile pattern generation using GAN

## PROJECTS

**SAR Image Colorization for Comprehensive Insight Using Deep Learning Model**

- Developed a deep learning model using Pix2Pix GAN to colorize grayscale SAR images.
- Implemented a generator and discriminator architecture to train the model on paired SAR and optical images.
- Optimized the model's loss functions to improve the accuracy and visual quality of the colorized images.
- Analyzed results using metrics such as SSIM-0.1505, MSE-0.0736, and PSNR-12.26 dB, demonstrating significant improvements in image quality.
- Technologies used: Python, TensorFlow/PyTorch, Pix2Pix GAN, Machine Learning.
- Project Link:- SAR Image Colorization for Comprehensive Insight Using Deep Learning Model

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## Shortest path between stations of Hyderabad Metro station using DSA

- Listed a list of metro stations in the city.
  - Calculated the shortest distance,time and cost between a single source station and a destination station using Dijkstra's algorithm.
  - Calculated distances from a single source station to all other stations.
  - found the path between the source and destination.
  - Technologies - C, Data Structures and algorithms .
  - Project Link:- Shortest path between stations of Hyderabad Metro station using DSA
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## Classification of Knee-osteoarthritis using image processing

- Developed image processing models for classifying knee osteoarthritis according to severity level using knee X-ray images.
  - The motivation behind addressing knee OA arises from its substantial impact on people's lifestyles, particularly in older people.
  - Advanced enhancement was implemented using histogram equalization, segmentation using K-mean, and feature extraction techniques to improve model input quality, improving overall accuracy and reliability.
  - Fine-tuned hyperparameters for optimal performance, achieving model accuracy up to **84%** with ensemble techniques.
  - Technologies - ResNet50, VGG-16, InceptionV3 and Deep Learning.
  - Project Link:- Classification of Knee-osteoarthritis using image processing
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## Online Exam Management System using OOps

- Developed a comprehensive C++ system that allows students to take exams and view results, while enabling teachers to create and manage exams.
- Implemented core concepts of OOP, including inheritance (User, Student, Teacher), encapsulation, and polymorphism for modular and scalable code.
- Added functionality to dynamically evaluate student responses and store exam results for future reference.
- Technologies - C++, OOps principles
- Project Link:- Online Exam Management System using OOps

# CERTIFICATES

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- Python Fundamentals for Beginners [🔗](#)
- Participated in Smart India Hackathon-2024