# Vinod Ramesh Patgar

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## Education

**M S Ramaiah University of Applied Sciences - Bengaluru, India**
B. Tech in Computer Science and Engineering
August 2019 – July 2023

## Experience

**Developer I - Software Engineering**                                    **September 2024 – Present**
**UST – Kochi, India**
- Developed a face detection and verification system as a Proof of Concept (POC) for UST, replacing fingerprint-based attendance with webcam-based face verification.
- Contributing to the development of UST's intranet platform, designed exclusively for UST employees to enhance internal communication and collaboration.
- Utilizing Angular for creating dynamic and user-friendly front-end interfaces.
- Developing and maintaining server-side logic using C# and .NET, ensuring scalability and efficiency.

**Full Stack Developer - Intern**                                    **June 2024 – August 2024**
Open-Source Project Experience (OSPE 2024) - Xzect Labs Private Limited, Delhi (Remote).
- Worked on open-source projects as part of a remote internship cum training program.
- Utilized HTML, CSS, JavaScript, and Next.js to create an intuitive and user-friendly insurance website interface

## Technical- Skills

**Programming Languages**: C#, Python, JavaScript
**Web Technologies**: .NET, Angular, Typescript, HTML, CSS
**Database**: MySQL, SSMS
**Artificial Intelligence**: Generative AI, NLP, Machine Learning
**Methodologies**: SDLC, Agile
**Tools**: Git, GitHub, Visual studio, VS Code

## Projects

**Counterfeit Prevention using Blockchain Technology | Link**
- Utilized HTML, CSS, and JavaScript to create an intuitive and user-friendly website interface.
- Leveraged Ethereum blockchain technology to design and deploy smart contracts aimed at preventing counterfeit activities.

**Face Detection and Verification System | Link**
- Designed and implemented a face detection and verification system and Integrated Azure Blob Storage to store reference images and used Python with OpenCV for real-time face detection and verification.
- Employed deep learning models including MTCNN for face detection and InceptionResnetV1 (VGGFace2 Pretrained) for feature extraction, running on CUDA (GPU) acceleration.

**House Price Prediction System using Machine Learning algorithms | Link**
- including Linear Regression, Random Forest, and Decision Tree within Jupyter Notebook for the House Price Prediction System.
- Authored and published an IEEE paper detailing the project's methodology, findings, and implications, contributing to the academic discourse in the field of machine learning and real estate prediction system.

## Courses and Certifications

Microsoft Certified: Azure AI Fundamentals – Certificate                                    Microsoft | Jan 2025
.NET Fundamentals – Certificate                                    Great Learning | August 2024