VENKATESH PATIL

B.Tech in Electronics and Communications Engineering

CONTACT

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SKILLS

- MATLAB
- SimuLink
- Python 3
- Google Cloud ML

EDUCATION

Bachelor of Technology
PES Univeristy

2021 to 2025

Skills:
- MATLAB
- SimuLink
- TensorFlow 2.0
- GNS3, WireShark, Cisco Packet Sniffer

Pre-University
Deeksha

2019-2021

Skills: HTML, CSS, JavaScript, MySQL, Calculus, Statistics

VERBALLY FLUENT IN

- English
- Hindi
- Kannada
- Marathi

COMPUTER LANGUAGES

- Python
- C
- Java
- Flutter

RELEVANT COURSEWORK

- CADD
- Machine Learning
- Reinforcement Learning
- Computer Networking
- Cryptography
- Neural Networks
- Digital Image Processing
- Large Language Models
- Computer Architecture
- RISC-V
- Operating Systems
- Design, Development and Analysis of Algorithms
- Data Structure and Algorithms
- Dynamic Programming
- Digital Signal Processing

PROJECTS

Random Fact generator: *January 2022*
- Made a random fact generator webpage with the internet as the source, scraping the web for general geographical facts
- Used tech: Python, JavaScript, HTML and CSS

AI HealthBot: *August 2023*
- Trained a machine learning model on 46 different medical textbooks in different areas of health to make an AI chatbot
- Used tech: Python, Keras, Pandas,

Tourist Location Recommender: *January 2024*
- Made a webpage backed by a trained deep learning model based on Convolutional Neural Networks to recommend a user tourist spots similar to that in an image provided by the user
- Used tech: Python, Keras, Pandas, piexif, and other Web technologies

Natural Disaster Management Project: *June 2023*
- Established a P-2-P connection on mobile devices lacking cell coverage in a post-disaster region (demonstration successful). Successfully ran an optimization protocol for efficient recovery of survivors.
- Used tech: Python, web technologies, WireShark (packet sniffing), GNS3, Firebase

ACHIEVEMENTS

HealthHack (PES): *October 2022*
- Top 10 in a 24 hour health hackathon

Psychathon (PES): *January 2023*
- Runners up in a 24 hour mental health hackathon

CypherQuest (DSAT&M): *June 2023*
- First place in a 24 hour Student innovation hackathon

Code. Create. Conquer. (GITAM): *November 2023*
- Fourth place in a 24 hour Student innovation hackathon

INTERESTS

- Cycling
- Running
- Trekking
- Puzzles
- Badminton
- Martial Arts (Taekwondo)

CURRENTLY WORKING ON

An IoT Bandage for better monitoring of diabetic chronic wounds

FUTURE PLANS

- Building an autonomous electric vehicle
- Smart inter-vehicle communication systems
- Complex Neural Networks for self-driving trucks and buses