

VASUDHA M

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[LinkedIn](#) ◇ [Portfolio](#)

SUMMARY

As a recent graduate with a strong background in data science, analysis, and programming, I'm eager to contribute my skills to roles as a Data Scientist, Data Analyst, or Software Development Engineer. Proficient in Python, SQL, and data visualization, I bring a proactive, adaptable approach to problem-solving and a commitment to continuous learning.

EDUCATION

BTech in Computer Science Engineering, PES University
CGPA: 9.17

Dec 2020 - Present

Pre-University, Vidya Mandir Ind. PU College
Percentage: 96.33

June 2018 - June 2020

SKILLS

Programming Languages	C, C++, Python
Libraries/Frameworks	TensorFlow, PyTorch, NLTK, spaCy
Tools / Platforms	Wireshark, Contiki OS

EXPERIENCE

Cisco thingQbator
Network Architect

August 2022 - October 2022
Bangalore

- Devised efficient network architecture, enhancing LANs, WANs, and components for organizational needs.
- Led vendor selection, cutting costs by 20% through optimal networking equipment and services.
- Trimmed troubleshooting time by 30% through comprehensive network documentation and procedures.
- Formulated a strategy to drive a 50% project expansion within 3 months, securing a network capacity that seamlessly scales.

RESEARCH

Research Paper named **Analyzing the performance of 6LoWPAN- CoAP and RPL-CoAP on LoRaWAN in Constrained Environment** (Yet to be published)

Survey Paper named **A Survey on Doubt Clarification System for E-Learning Videos** (Yet to be Published)

Working on **Detection and Analysis of Depression using fMRI images of Brain**

PROJECTS

Instant doubt clarification system in distant learning - Machine Learning, NLP, Python, OpenCV

- Developed an instant doubt clarification system for distance learning.
- Improved online learning by quickly addressing student questions using the lecturer's verbal discourse and presentation content.

Detecting and Mitigating Sinkhole Attacks in Corporate WiFi Networks through Network Analysis Techniques - C, Networking, Wireshark, Contiki-OS, IoT

- Developed a comprehensive sinkhole attack simulation environment within a controlled corporate WiFi network configuration.
- Utilized advanced network analysis techniques and tools to detect the presence of the sinkhole attack within the simulated environment.

Panchatantra Story Narrator tool for Kids - Python, Machine Learning, TTS

- Designed to engage and educate children through interactive storytelling.
- The tool provides age-appropriate Panchatantra stories, improving reading skills while imparting valuable life lessons in an enjoyable manner.

Parkinson's Disease Rehabilitation Monitoring through Dual Pose Estimation: Integrating Physical therapy and Real-time Webcam Analysis - Python, Machine Learning, MediaPipe, OpenCV

- Developed a sophisticated dual pose estimation system that integrates physical therapy exercises with real-time webcam analysis.
- By offering side-by-side visualization of exercise poses and live webcam footage, the system promotes enhanced user engagement in the rehabilitation process.
- Leveraging the dual pose estimation system's capabilities, healthcare professionals can tailor personalized rehabilitation plans for Parkinson's Disease patients.

CERTIFICATIONS

- Grasping ML with Python, workshop by ECE Department by PES University
- AI and ML tools on the Google Cloud Platform
- Center for Innovation and Entrepreneurship Level 1

HONORS & AWARDS

- CNR Rao Merit Scholarship holder (top 2% in the University)
- Pioneered the establishment of SHUNYA ECC, assuming the roles of visionary founder and dedicated club mentor.
- Orchestrated the Shunya Research Committee, leading interdisciplinary collaboration and driving innovative research projects to realization.