



Prof. PRITI PARAG GAIKWAD

Assistant Professor, Department of E & TC

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OVERVIEW:

Qualifications: Ph D Pursuing (E&TC Engg), MTech (Electronics System and Communication Engg), BE (E&TC Engg)

Experience: Teaching -5 years

Date of Joining STES: 23/12/2021

Skills and Proficiencies: Basics of Cloud Computing, Machine Learning

SIGNIFICANT ACHIEVEMENTS:

- Published 2 papers in top-tier journals on image processing.
- Published 1 paper in scopus index conference on Mental health
- Published 1 paper in scopus index journal on Mental health
- Published 3 papers in international journal paper.
- Qualified SET and GATE Examination.

AREA OF EXPERTISE /RESEARCH INTERESTS:

- Mental Health for depression detection, Machine Learning and Natural Language Processing

NUMBER OF STUDENTS GUIDED:

- UG – 15

RESEARCH PULICATIONS:

Publication Summary:

Scopus / SCI - 1

International Journals - 4

Conference - 1

H index - 2

i10 Index -1

<https://scholar.google.com/citations?user=RLSNEhUAAAAJ&hl=en>

RESEARCH WORK:

Phd Research Work:

Secured Speech and text driven diagnostic system for mental Health Scope

- Automatically predict the stress level scale and differentiate disturbed mental condition from other mental disorders using the patient's psychiatric illness history and dynamic descriptions extracted from the user inputs.
- From a privacy perspective, concerns for security.

Objectives of this work

1. To build ,collect and process Marathi datasets based on speech and text for the diagnostic model
2. To design and simulate diagnostic model capable of finding the mental illness based on the speech processing
3. To incorporate text processing in diagnostic model towards finding the mental illness
4. To combine privacy concerns in the model through decentralized learning

- The research was conducted under the guidance of psychologist from Devine Life Centre for Mental Health Care ,Pune

NOTABLE GUIDED PROJECTS:

UG Projects:

1. Design and Development of EV charging station with multiple power sources and Communication with IoT Gateway
2. A Device For Automatic Detection Of Elderly Falls.
3. Face EMOTION Recognition to detect depression
4. Smart Aeroponic and Hydroponic Farming using ESP32 module with Mobile Application

RESOURCE PERSON TO INDUSTRY/ACADEMIA:

1. Invited for Subject oral (Viva-Voice) for ES1039-Mechatronics and Robotics for First year Engineering Students at Vishwakarma Institute of Technology.
2. Resource person for the "Train The Trainers" Program on the topic "Cloud Service Models" Organized by, the Dept. of E&TC Engineering, Sinhgad College of Engineering Pune, during 10 -14 July 2023

SUBJECTS TAUGHT:

- Electrical Circuits
- Power Electronics
- Cloud Computing

CONFERENCES ATTENDED:

- Proceedings of Congress on Control, Robotics, and Mechatronics CRM 2023.

FDP/STTP/SDP ATTENDED:

1. Cloud Computing lab Sessions one week workshop
2. One week FDP on Artificial Intelligence, Machine Learning & Applications
3. One day workshop on Natural Language Processing.
4. One week Faculty Development Program On "Amazon Web Services"
5. One week STTP on fog Edge Computing and Data Science.
6. One week STTP on Emerging Technological Advancement and Practical Application of Data Science.

7. Participated in the AICTE Recognized Faculty Development Programme on Outcome based Curriculum Development Conducted by Curriculum Development Centre Department
8. One week Short Term Training Program on “Embedded Systems in Real Time and Applications of IOT.
9. 21 days master class on Amazon Web Services
10. One week FDP on Implementing IoT and Machine Learning Application on Raspberry-Pi
11. One week National Level FDP on Cloud Infrastructure(AWS)
12. Participated in Train the Trainer by SCOE E&TC Department.
13. One week ISTE approved Online Workshop on -“Introduction to ML,NLP & Chat Bots”

RESPONSIBILITIES HANDLED AT STES/SCOE/DEPT:

1. Institute Level

Techtonic Event Member ([inauguration](#))

2. Department Level (E&TC)

- Teacher Guardian, Class Teacher
- Departmental AMC Data cell Committee Member
- Departmental Housekeeping Committee member
- Project Guide for BE students
- NBA Criteria 5 member
- Research and Grants Committee Member

DECLARATION:

I hereby declare that all the above information furnished by me are true to the best of my knowledge.

Date: / / 2024

Signature