Pandeeswari M
monigapandis@gmail.com
+91 9943559879

Career Objective

Looking forward to being unified with an organization that will pave the way to start my passionate career with challenging roles and tasks, thus nurturing my own knowledge.

Experience

- Currently working as an Assistant Professor at Mohamed Sathak A.J College of Engineering.

Educational Qualification

- ME(Computer Science and Engineering) from Madras Institute of Technology, Chennai (2017-2019).
- BE(Computer Science and Engineering) from PSNA College of Engineering & Technology, Dindigul (2013-2017).

Technical Skills

- Languages : C, C++, .NET, MATLAB, Python.
- Database : MySQL.
- Operating System : Windows XP/7, 8, Basic of Linux, Mac OS, Cent OS.
- Web technology : HTML, XML.
- Tools : Lucid chart, Ns3, Rapid Miner, Blender, Unity.

Area of Interest

- Data Structure & Algorithms.
- Theory of Computation
- Mobile Computing.

FDP/ Workshop Attended

- Attended the STTP on ***Machine Learning & Deep Learning with Data Science*** at Care College of Engineering, Tiruchirappalli (17-07-2023 to 21-07-2023)
- Attended the International Webinar on ***Applications of Matlab*** at St. Francis College, Bangalore (13-07-2023)
- Attended the FDP on **Statistical Analysis with Excel** at Research Foundation of India (05-06-2023 to 09-06-2023)

- Attended the FDP on ***Innovation Teaching and Learning Pedagogy*** *at* Research Foundation of India (27-05-2023 to 31-07-2023)
- Attended the FDP on ***Python Programming and its Applications*** at SNJB's Shri Hiralal Hastimal, Chandward (18-07-2023 to 19-07-2023)
- Attended the FDP on Naan Mudhalvan Training of Trainers Program for ***Digital Marketing*** Programme, Chennai (13-02-2023 to 17-02-2023).
- Attended the FDP on Naan Mudhalvan Training of Trainers Program for ***AR, VR Metaverse Development*** Programme, Chennai (19-09-2022 to 22-09-2022)
- Certified for AICTE Training and learning (ATAL) academy online elementary FDP on ***Big Data and Analytics*** (20-09-2021 to 24-09-2021).
- Certified for AICTE Training and learning (ATAL) academy online elementary FDP on ***Cyber Security, Ethical Hacking and Cyber Crime*** **(12-07-2021 to 16-07-2021).**
- Certified for AICTE Training and learning (ATAL) academy online elementary FDP on ***Technology trends for 5G and IOT based use cases*** (12-08-2021).
- Attended the workshop on the ***App Dhoom Mobile App Competition*** at P.S.N.A College of Engineering & Technology, Dindigul (21-02-2015).
- Attended the workshop on ***Robotics & Computer Application*** at P.S.N.A College of Engineering & Technology, Dindigul (27-02-2015 to 28-02-2015)..
- Attended a Three day Project Training Programme on ***Big Data & Analytics*** at P.S.N.A College of Engineering & Technology, Dindigul (23-02-2017 to 25-02-2017).

Workshop Conducted

- Internal workshop on ***Game Development*** organized by the Department of CSE at Mohammed Sathak A.J College of Engineering.

Journal Publications

- Published a paper titled "Implementation of Predictive Scheduler Capability To Develop Future Channel Condition For Best Effort Traffic LTE Network", ***TIJER - International Research Journal (www.tijer.org),*** ISSN:2349-9249, Vol.10, Issue

3, page no.738-745, March-2023,
Available:http://www.tijer.org/papers/TIJER2303234.pdf

- Published a paper titled " Heterogeneous signaling and user provisioning Traffic for 5G core network functional testing", ***International Journal of Emerging Technologies and Innovative Research (www.jetir.org | UGC and issn Approved),*** **ISSN:2349-5162, Vol.10, Issue 7, page no. ppi58-i64, July-2023, Available at : http://www.jetir.org/papers/JETIR2307810.pdf**

Subject Handled

- Theory of Computation.
- Problem-solving and Python programming.
- Programming in C

Co-Curricular Activities

- Interested in simplifying documentation using ***OVERLEAF*** and ***TEXWORKS.***
- Active user of ***GITHUB*** for project Management.
- Self-motivated to visualize the architectures and diagrams using ***LUCIDCHART.***

Project Details

1. **OpenFlow Mechanism for P4 Programming Multi-tenant 5G Mobile Networks.**

- Programming Protocol-independent Packet Processor (P4) is designed to allow the programming of packet forwarding planes. P4 is a high-level language for programming independent packet processors. P4 works in conjunction with Software Defined Network (SDN) control protocols like OpenFlow. OpenFlow allows remote administration of switch packet forwarding tables, by adding, modifying, and removing packets. P4 allows the controller to switch and to operate rather than accepted by fixed switch design.
- P4 is a wide range of hardware and software switches. By using P4, three main goals can be achieved (1) Re- configurability: Programmers should be able to change the way switches process packets once they are deployed.
- (2) Target independence: Programmers should be able to describe packet processing functionality independent of the underlying hardware. This compiler can be used for slow software switches to the fastest ASIC-based switches.
- (3) Protocol independence: Switches should not be tied to any specific network protocol. The controller should be able to specify the header format and field names required by the protocol. To adapt the composition of Network Functions

(NFs), the control and data layers are developed in the mobile networks. Here we describe how to use P4 to configure a switch to add a new hierarchical label.

2. **Implementation of Predictive Scheduler Capability to Develop Future Channel Condition for Best Effort Traffic LTE Networks.**

- Long Term Evolution (LTE)has been used for the fastest mobile equipment and data communication based on the second and third cellular mobile networks. The primary goals of LTE use to improve spectrum efficiency, low-priced mobiles, improve data services and make a new spectrum. LTE has high data rates, low delay access, increased spectrum efficiency and enhanced security to quality of services. In spite of these advantages in LTE, there are a few disadvantages such as increased delay, power consumption and battery issues.
- The delay is caused in the different traffic LTE networks. There is Voice over IP models (VoIP), web browsing models, Video streaming models and File Transfer models. The video Streaming model and file transfer traffic model can be reduced to improve the LTE networks. This traffic network has improved but some disadvantages occur in the network. There are delay constraints, rate constraints and average throughput.
- These demerits can be reduced to improve LTE signals. Increase in the data improving throughput performances. Packet scheduling algorithm used to improve the throughput performance. Hence LTE can be enhanced.

Soft skills

- Adaptability
- Strong work ethic
- Quick learner

Personal Details

- Name : Pandeeswari M
- DoB : 03 June 1996
- Nationality : Indian.
- Languages Known: English, Tamil.

Declaration

I honestly declare that the above -mentioned details are true to the best of my knowledge.

DATE **PANDEESWARI. M**