

SUDIPTA SEN

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EDUCATION

Indian Institute of Information Technology Allahabad

Sept 2021 – May 2023

Master of Information Technology - CGPA - 9.41/10

Prayagraj, U.P

University Of Calcutta

Oct 2017 – July 2020

Masters in Computer Application - Percentage - 85.6%

Kolkata, W.B

Bidhannagar College, West Bengal State University

Aug 2013 – July 2016

Bachelor Of Science (Mathematics) - Percentage - 59.79%

Bidhannagar, W.B

EXPERIENCE

Indian Institute of Information Technology Allahabad

Prayagraj, U.P

Undergraduate Teaching Assistant

Oct 2021 – Present

1. Assisting instructors in managing development and evaluation of course assignments.
2. Providing the professor with feedback related to student performance.

Alumnus Software Limited

Kolkata, W.B

Member of Technical Staff Grade I

Feb 2021 – Sept 2021

1. ATM bonding asymmetric line rate test automation framework development:

Goal of the framework to test the ATM bonding driver performance automatically based on different scenario. Important tasks performed by the framework was -

- (a) Establishing communication between testing PC and Master PC. Communication is established via CPE if the testing PC does not reside in the same LAN and if the testing PC resides in the same LAN as of master pc then communication is established using ssh.
- (b) Run iperf client in LAN and after running a session with online iperf server, parsing the output to get the desired result.
- (c) Set hardware shaper rule.
- (d) Setting QoS prioritization.
- (e) **Achievement:** Manual effort of 1 day reduced to less than 3 hours with no manual error.

2. SoC power management validation:

Design automated test cases for power and thermal management-

- (a) Switching between governors performance, powersave and userspace.
- (b) Automatic shutdown of system in case of thermal overheat.
- (c) CPU frequency driver is supported and in use
- (d) Verify whether we were able to force cpu to offline
- (e) Verify the behavior of cpu scaling with cpu utilization
- (f) Verify the behavior of cpu scaling with cpu utilization along with thermal event

3. Wireless performance and functional validation:

Trainee Engineer

Aug 2020 – Jan 2021

1. Automation of power imbalance forecasting and account profitability analyses using PowerApps and PowerBI:

- (a) Automate energy forecast calculation based on previously consumed energy and new/lost customers. Forecasting can be done for any future month and year.
- (b) Automate customer profitability calculation for a month for each customer type (domestic and commercial).
- (c) Calculation of the unit selling price for a given profit margin and cost constants.

2. Log analyser using python:

- (a) Given a passed and failure log this program compare both the log and highlight the difference between them that will help the tester or programmer to find out the exact reason of failure. This program also parse output of various Linux commands like ifconfig, ps, top, uname, lshw, lscpu, netstat, ping separately that will help to understand the system state

Indus Net Technologies

Technical Support Engineer

Kolkata, W.B


Apr 2017 – Oct 2017

1. Works as a intermediary between customer care and technical team for Lycachat.

TECHNICAL SKILLS

- | | | | |
|--------------------------------|---------------------|-------------------------------------|----------|
| • Data Structures & Algorithms | • Operating Systems | • Database Management System (DBMS) | • C++ |
| | • Computer Network | | • Python |

PUBLICATION

- **Recommendation of Influenced Products Using Association Rule Mining: Neo4j as a Case Study:** In this paper the recommendation system has been built based on association rule mining. A new association rule mining technique is proposed for quick decision-making which gives better performance over Apriori algorithm. The entire framework has been developed in Neo4j graph data model for doing the data modelling from raw text file and also to perform the analysis 

ACHIEVEMENT

- Qualify UGC-NET for eligibility for Assistant Professor on 4th December, 2019 in subject Computer Science and Applications.

PERSONAL SKILLS

- | | | |
|---------------|-----------------|---------------------|
| • Team Player | • Quick Learner | • Positive Attitude |
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PERSONAL DETAILS

- **Date of Birth:** 14th July, 1995
- **languages known:** English, Hindi, Bengali