

Swapan Kumar Sarkar

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PROFILE SUMMARY

Motivated, Hard Working and Willingness to relocate. I want to work with an organization where I can enhance my skills and get opportunity to grow with the organization.

HIGHLIGHTS

- **Programming Languages:** Python, Django(framework)
- **Python Skills:** Works on Arithmetic, Relational & Logical operators, String, Data Structure Algorithms(Tuple, List, Dictionaries, Set), works on if statement, while loop & for loop, Attributes & Methods, create class with constructor, Inheritance, Multiple Inheritance, Multi level Inheritance, works with libraries Numpy, Pandas & Matplotlib
- **Machine Learning Frameworks:** TensorFlow, Keras
- **Machine learning Skills:** Missing value handling, Encoding, Outlier handling, Feature scaling, Feature selection technique, Feature extraction(PCA), Regularization, Confusion matrix, Cross validation, Bagging technique
- **Machine learning models:** Multiple linear regression, Polynomial regression, Logistic regression, Naïve bayes, Decision trees, SVM, KNN, Random forests, k-means clustering, Hierarchical clustering, DBSCAN clustering, Apriori algorithm, FP growth algorithm
- **Deep learning models:** ANN, CNN, RNN
- **AI Techniques:** Machine Learning, Deep Learning, Computer Vision
- **Tools and Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, OpenCV
- **Computer Vision Libraries:** OpenCV
- **Image and Video Processing:** Segmentation, detection, classification, tracking
- **Preprocessing Techniques:** Augmentation, normalization, histogram equalization, noise reduction, feature extraction, contour extraction
- **Front-end Skills:** HTML, CSS, JavaScript
- **Back-end Skills:** Python, Django(framework)
- **Database Skills:** MySQL
- **Git & GitHub :** working knowledge of version control system on (e.g., Git) .

Networking Skills

- **Routers:** RIP(V1,V2), OSPF, EIGRP, DEFAULT/STATIC ROUTING. Configuration NAT&PAT, ACL(Standard and Extended), VPN
- **Switches:** VLAN, VLAN Trunking, VTP, STP, STP BPDU Guard, Root Guard, Configuration of Vlan, Inter-Vlan Routing, Port-security, Configuration of Ether Channel (PAGP & LACP)
- **Other Protocol:** Telnet, DHCP, TCP/IP, OSI Model, LAN&WAN Communication, IPV4 Addressing, Subnetting, Basic knowledge of IPV6, Backup of IOS and Password recovery

ACCOMPLISHMENTS

- **Predictive analytics:** Developed predictive analytics models for loan approval processes, utilizing supervised machine learning techniques to optimize decision-making and risk assessment
- **House Price Prediction:** Developed analytics model on house price

- datasets, utilizing machine learning techniques to predict house price
- **Image Classification:** Developed a CNN model for cat and dog image classification using advanced augmentation techniques
- **Object Detection & tracking:** Built solutions for pedestrian detection, smile detection, and vehicle tracking from video streams

WORK EXPERIENCE

- **ML & Python Developer**, working as Associate Software Developer with Intelligent.ai as freelance and plays a most responsible roles for developing Software and success the projects. (June 2024 – Present)

My Achievements list during this time period.

AI/ML Projects:

1. Loan prediction model create by using ml algorithms.
2. House prediction model create by using ml algorithms.
3. Customer churn analysis
4. Object detect, tracking & counting. Please go my profile to view- <https://swapancodes.github.io/website/>

Python Projects:

1. E-commerce app create by using python and django framework with mysql database and deployment it on pythonanywhere. Please go online Link- <https://s3w1a0p5a7n.pythonanywhere.com>
2. Pharmacy Management System Software creation. Please go my profile to view- <https://swapancodes.github.io/website/>

- **Network Support Engineer**, Nipun Net Solution Pvt Ltd (June 2023 – June 2024, Kolkata)

Roles & Responsibilities:

1. Cisco Switch 2960 Configuration (Vlan, Trunking,)
2. Cisco Switch 3850 Configuration (Vlan, LACP Protocol, ip routing as per vlan wise, telnet configure, ip helper-address configure)
3. configuration Scope of DHCP Server.
4. Aruba 2930 Switch Configuration (Vlan, Tagged, Untagged, LACP)

- **Tech Support**, Informatics Technologies Pvt Ltd (August 2022 – May 2023, Gujarat)

Roles & Responsibilities: I have worked on Python project to build one Pharmacy Management System Software written Python code and established connectivity with MySQL Database. Responsible for writing reusable, testable and efficient code ensuring the applications performance, security and scalability

- **Desktop Support Engineer**, IMSI Staffing (A Team Lease Company) (Feb 2021 – Aug 2022, Haldia, WB)

Roles & Responsibilities:

1. installation of Windows server 2012 R2 (PDC & ADC) both
2. install Roll & Features of ADDS, DNS, DHCP
3. create User, Group & Computer Accounts in Active Directory
4. join in domain from Clients
5. configuration Scope of DHCP Server
6. DHCP Server Backup & Restore
7. Full Server Backup
8. install and configuration DNS Server
9. create Group Policy Objects (Wallpapers, Pendrive access block, password policy etc) in Domain
10. install and configuration NTP Server

11. add Forward Lookup Zone
12. add Reverse Lookup Zone
13. Knowledge of ADFS and LDAP
14. Clear Concept how office 365 integrate with Active Directory
15. Port number of POP3, SMTP, IMAP
16. knowledge about Microsoft Intune and OU
17. Files Sharing
18. System Image Backup & Recovery
19. Hikvision Bullet Camera install, Configuration & Troubleshooting
20. NVR Configuration and troubleshooting
21. Camera recording download
22. iVMS-4200 install and configuration
23. I have Configured HP Aruba 2930M Switch (VLAN Create, Tagged, Untagged Port)
24. DHCP Configuration on Core HP Aruba 2930M Switch
25. Switches Configuration Backup
26. HSRP Configuration
27. Clipping
28. 42U Rack Installation
29. 802.1x port configure and Troubleshooting in Switchport
30. MAC Binding on Switchport
31. Configure VLAN , VTP and Switch Port
32. Wireless Router Configure
33. Troubleshooting LAN Related Issues reported by users

- **System Engineer**, Precision Techserve (M) Pvt. Ltd (Oct2019 – Jan2021 , Hooghly,WB)

Roles & Responsibilities:

1. Installation and Configuration of Windows based Operating systems (Windows Vista,7,8 &10)
2. Software Installation and Troubleshooting of all types of Customer Oriented field problems,network setting for 3.TCP/IP and Internet setup
4. IBM Lotus Notes Configuration
5. Configure and Troubleshooting of Desktops and Laptops for L1 & L2 Backup and recovery
6. Configure and Troubleshooting of Printer , Scanner and LAN Related Issues reported by users
7. Installation and Configuration of Wireless Data Cards in User laptops
8. Active Directory User creation and Deletion
9. Maintenance and Troubleshooting of connectivity problems using ping , traceroute
10. Users Group Policy Creation and Modification

- **Software Support Engineer**, Aidni Infotech Pvt Ltd (April 2019 – Oct2019 , Kolkata)

Roles & Responsibilities: web development , back-end and front-end software support. Discuss with clients to Understand the requirements.

- **Private Tutor (Mathematics)**, Self-Employed (2014 – 2019, WB)

QUALIFICATION

- **B.Sc. in Mathematics, University of Calcutta, 2014**
- **Higher Secondary (Science), W.B.C.H.S.E, 2011**

TECHNICAL QUALIFICATION

- **Post Graduate Diploma in Software Engineering, from THE INSTITUTE OF COMPUTER ENGINEERS [INDIA]**
- Completed a Networking Course **CCNA** on Routing & Switching from IINT During Mar-2017 to Feb-2018

SOFTSKILLS

- Problem-Solving
- Communication
- Collaboration
- Time Management
- Critical Thinking
- Adaptability

PERSONALDETAILS

- Date of Birth: February 3, 1992
- Languages Known: Bengali, English, Hindi
- Nationality: Indian
- Marital Status: Unmarried