Anindya Sen

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Education

Vellore Institute of Technology (VIT)   Vellore, Tamil Nadu, India
B.Tech. in Computer Science and Engineering
CGPA: 8.01/10.0

Relevant Courses: Applied Linear Algebra, Artificial Intelligence, Web Mining, Image Processing, Machine Learning, , Applications of Differential Equations, Parallel and Distributed Computing, Internet of Things, Human Computer Interaction, Digital Forensics, Information Security Management.

Research Interests

Natural Language Processing	Machine Learning	Image Processing
Data Mining	Computer Forensics	Computer Vision

Research Experience

- **Journal Publications**
    - Sarkar, S.S., **Sen, A.**, Krishnamoorthy, A. *et al.* **Route Planning Service for Emergency Vehicles with Increased Accuracy and Efficiency for Online Platforms**. *SN COMPUT. SCI.* **3**, 400 (2022). https://doi.org/10.1007/s42979-022-01289-5

- **Book Chapters**
    - Dey, K., Chowdhury, F. K., **Sen, A.**, Arka, A. M., Chowdhury, O., Roy, H., & Rahman, M. Z. (2024). **Graphene and its hybrid materials: Properties and applications.** Reference Module in Materials Science and Materials Engineering. https://doi.org/10.1016/b978-0-323-96020-5.00214-4

- **Undergraduate Final Semester Capstone Project**
    - **Title:** Decentralized Healthcare Network Platform
    - **Supervisor:** Dr. Krishnamoorthy A.
    - **Description:** Using state-of-the-art blockchain technology, we have built a totally decentralized system in which data is saved in our proprietary file system called IHFS, which is entirely protected from data security and integrity concerns.

Skills

- **Programming Languages:** Python, C, C++, Java, JavaScript,
- **Frameworks and Libraries:** Tensorflow, PyTorch, Keras, OpenCV, Numpy, Pandas, Scikit-learn, Django, Node.JS.

Projects

- "Object" a Web Based Object Detection Site (Link)
    - (*A Web based Object Detection system using TensorFlow.js*)

- Offensive Language Identification System (Link)
    - (*A system for detecting offensive language in OffensEval (SemEval 2019 Task 6)*)

- Comparing word search technique between Sequential and Parallel Method
    - (*Language: C, OpenMP*)

- Real-time 3D Product Display and Demo using ARCore
    - (*Language: Java, implemented Augmented Reality (AR) in an Android App*)

- Efficient Image Encryption Algorithm (*Language: Python*)

- Detection of Motorcyclists and Construction worker without Helmet from Live Surveillance Video
  - (*Using Convolutional Neural Network(CNN): YOLO*)
- Detecting and Tracking Irregular Objects Based on Their Shape and Color In Real-Time (*Using OpenCV, NumPy*)
- Smart Home Automation System (*Using 8086 microprocessor*)
- Garage Management System (*Using the concept of Deadlock in Operating Systems*)
- Pharmacy Management System (*Language: Php,MySQL,HTML*)
- Servo Motor Speed Monitor (*Using Proteus for simulation and Blynk Server*)
- Telemedicine and Monitoring App for Elderly People
  - (*Designed the system architecture, Cost analysis, Marketing strategies and building a prototype of the android app for the course "Lean Start-up Management"*)

Activities

- **IEEE Power and Energy Society (IEEE PES), VIT Chapter**
  Core Committee Member   *December 2018-December 2020*
  - Conducted Workshops on: Machine Learning, MATLAB.
  - Represented in: Gravitas 2019 and Riviera 2019.

Achievements & Awards

- Government Scholarship for Secondary School Certificate Examination
- Government Scholarship for Junior School Certificate Examination (2nd position in Chattogram Board)
- Achieved awards from various art competitions.

MOOCs and Certifications

- Advanced Algorithms and Complexity (Link)
- The Arduino Platform and C Programming (Link)
- Fundamentals of Parallelism on Intel Architecture (Link)
- Essential of Machine Learning (Link)
- Logistics and Supply Chain Management (Link)
- Marketing Management (Link)
- Web Application Technologies and Django (Link)