PROFILE

An enthusiastic learner passionate to delve into complex engineering problems to come up with new and efficient solutions with hands-on experience in Data Science, Machine learning, AI and Software Engineering.

CONTACT

PERMANENT ADDRESS:
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GITHUB:
https://github.com/Sidsuresh

INTERESTS

- Problem Solving
- AI and Machine Learning
- Web and App Development
- Deep Learning Techniques
- Information Security

SIDDHARTH SURESH NAIR

B.Tech COMPUTER SCIENCE ENGINEERING, 3RD YEAR

EDUCATION

Bachelor of Technology: Computer Science Engineering
Vellore Institute of Technology, Vellore
July 2019 – Present (Graduating 2023)
- CGPA: 9.1

Higher Secondary | 12th Class
June 2017 – March 2018
St. Antony's Public School, Anakkal
- Percentage: 91.6%

Secondary | 10th Class
April 2015 – March 2016
Delhi Private School, Sharjah
- CGPA: 9.4

SKILLS

Programming Languages
- C/ C++, Java, Python, Java Script

Machine Learning and Artificial Intelligence
- PyTorch, TensorFlow, Keras,, Numpy, Pandas
- Linear Regression, Logistic Regression, K – Means Clustering
- Decision Trees, Bayesian Belief Networks
- Neural Networks(RNN and CNN)

Web And App Development
- React, Node JS
- FastAPI, RestAPI
- Python Tkinter Library

Database
- SQL and NoSQL

SOFT SKILLS

- Interpersonal Skills
- Teamwork and cooperation
- Problem Solving
- Analytical Skills

RELEVANT COURSE WORK

- Data Structures and Algorithms
- Probability and Statistics
- Operating System
- Database Management System
- Software Engineering and Design
- Applied Linear Algebra

OS KNOWN

- Windows
- Mac
- Linux

PROJECTS

Data Encryption and Decryption Using Binary Trees

- Successfully developed a Data Encryption and Decryption program in C++ using Binary Trees.
- Encryption is done by storing the data in a binary tree in which each node contains only a specific number of characters known only to each user. The user then receives the Inorder and Preorder Traversal of the mirrored binary tree as the cipher text.
- Decryption is done by using the Inorder and Preorder traversal to construct a tree which is then used to obtain the message by mirroring the constructed binary tree.
- The time complexity of this algorithm: $O(n^2)$
- https://github.com/Sidsuresh/Encrypt_Binary_Trees/blob/main/Encrypt.cpp

Handwriting Digit Recognition

- Developed, trained and implemented a ML model to successfully classify handwritten digits (0 - 9) using TensorFlow 2.0 by employing Convolution Neural Networks.
- Accuracy: 98.53%.
- Using the Mnist dataset from Keras
- https://github.com/Sidsuresh/HandwritingDigitRecog

FinanceLock

- A financial loan lending application to facilitate safe transaction of money between the Investors and Customers through their own discretion.
- Frontend of the App was developed using the Python Tkinter library
- Backend of the was maintained with the help of Firebase

WORKSHOPS/ COURSES ATTENDED

- Attended a Technobyte Workshop on '**Machine Learning with Artificial Intelligence**' at IIT Madras. Duration: 2 Days: 14-15 September 2019.
- Successfully completed Machine Learning online course conducted by Andrew Ng with certification by STANFORD UNIVERSITY