Siddharth Nair

siddharthmani2000@gmail.com | +919790943558 |

EDUCATION

VIT UNIVERSITY
BTech Computer Science
Present | Chennai, India
Cum. GPA: 8.56/ 10

DAV SENIOR SECONDARY SCHOOL
Grad. May 2018| Chennai, India
Percentage: 95.4

LINKS

Github:// **Siddharth1010**
LinkedIn:// **Siddharth Nair**

COURSEWORK

Machine Learning
Operating Systems (Teaching Assistant)
Artificial Intelligence
Deep Learning and Neural Networks
Natural Language Processing
Internet and Web Programming
Networks and Communication
Database Management
Data Mining
Data Structures
Statistics
Graph Theory

CERTIFICATIONS

Machine Learning with Python-IBM, Deep Learning and Neural Networks-Deep Learning AI. Introduction to TensorFlow for AI, ML and Deep Learning-Deep Learning AI. Student Co-Ordinator at a faculty development program at VIT Chennai

SKILLS

PROGRAMMING
Experienced
Python • Java • R • C/C++
JavaScript • D3 • PHP • HTML,CSS
JQuery • SQL • Node.js • Linux
TensorFlow • Keras • C-Sharp • Matlab
Familiar
React • Django • ASP • Angular
Learning
Scala • Swift • Android • Flutter

PERSONAL
Problem Solving Ability
Team Player
Self Motivated

EXPERIENCE

ONGIL | Software Engineer Intern
March 2020 – April 2020 | Chennai, India

- Worked on automated Web Scraping,data mining,data cleansing and report generation using Python,Selenium and Excel.
- Worked on building an interactive world map to highlight available and disrupted shipping routes between ports, sources and destinations using D3,GeoJson and JavaScript.

VIT UNIVERSITY | Research Intern
July 2020 – August 2020 | Chennai, India
Worked with Dr. Vergin Rajasarobin on the research paper 'Statistical model based Predictive Analysis of COVID-19 Pandemic Trend: Perspectives for India'.(Under Review)
Implemented the Time-Series forecasting models- ARIMA and Holt-Winters Forecasting to predict the future trend of COVID-19 in six Indian States.
Implemented and compared various Machine Learning and Deep Learning models for the above such as SVR,Random Forest Regression and LSTM.

VIT UNIVERSITY | Research Intern
November 2019 – Present | Chennai, India
Work with Dr. Amit Kumar Tyagi:
1. Research paper on 'DLBS: Deep Learning Based Blockchain Solution for Preserving Privacy in Future Vehicles'.Developed a deep learning based two-way trust algorithm between vehicles.
2.Book Chapter on 'Issues and Challenges in blockchain based applications'.

PROJECTS

Smart Covid-19 Parameter Detection Using AWS, Alexa(08/2020)
Deep Mask and distance detection over AWS linked with responsive Amazon Alexa.Includes facial,emotion detection(Using Python,OpenCV,Keras,Boto3)
Visual Question Answering (VQA) (08/2020)
CNN based system which answers text questions on the input image with a responsive GUI(Using Python, Keras,PyQT5)
Neural Sentiment and Emotion Analysis of Tweets (08/2020)
Used RNN to analyse sentiments,tokenization and word-mapping to plot emotion graphs of extracted tweets.(Using Python,Keras,Selenium and Flask)
'ECLIPSE' Discussion Forum (11/2019 – 03/2020)
A discussion forum for employees to interact with each other and solve problems internal to the company.(Using HTML,CSS,JS,PHP,SQL,JQuery)
IOT App Hosting and Wireless Access (01/2020 – 02/2020)
Creation of an IOT and cloud-based smart trash bin to promote Swachh Bharat Abhiyan themed for Smart India Hackathon, 2020.

ACHIEVEMENTS AND PUBLICATIONS

Incoming MITACS Globalink Research Intern at the University of Alberta, Canada-2021. Winner of 'Telemedicon Makeathon 2020', Presented accepted research papers at 'ICRTAC,2020' and 'HIS,2020'.

Nair, S. M., Ramesh, V., Tyagi, A. K. (2020). Issues and Challenges (Privacy, Security, and Trust) in Blockchain-Based Applications. In Opportunities and Challenges for Blockchain Technology in Autonomous Vehicles (pp. 196-209). IGI Global.

Nair, Meghna Manoj, Siddharth M. Nair,and Amit Kumar Tyagi. "Deep learning based Blockchain solution for preserving privacy in future vehicles."International Journal of Hybrid Intelligent Systems Preprint:1-14.