Kirtan Yogeshkumar Ghelani

Machine Learning Engineer • Blockchain Developer • Data Science

SRM University • 2024 Pass out

Projects

Malware Detection using ML

- Classifying the given software/file weather it is malware or not
- .asm & .bytes files can be identified using random ML classification models
- There are total 10,868 .bytes files and 10,868 asm files total 21,736 files & 9 types of malwares (9 classes) in our give data which are being classified

Skills Developed: Machine Learning, Data Mining, Python

Handwritten Digit Generator [GAN - Generative AI]

- Architecture of model that can generate the images of digits using GAN (General Adversarial Network)
- Two neural Networks [Generator and other Discriminator] have been trained with coordination
- MNIST dataset of handwritten digits have been used here, But for more complexions we can use conv2D, dense, and pooling layers for Image generation (similar to that of DALL.e using conditional GAN)

Skills Developed: Deep Learning, Machine Learning, Python, PyTorch, Tensorflow

VoteFlicks - dApp

- This project is a decentralised application (DApp) called "VoteFlicks" that is built on the Ethereum blockchain using Solidity for smart contracts, React JS for the front-end interface, and Ethers for interaction between the front-end and the blockchain. It allows users to vote for their favorite movies in a transparent, secure and tamper-proof manner. The project is deployed on Spheron using Filecoin for decentralized storage.
- Smart contract written on solidity, have been deployed at polygon network (Ethereum based Network) and is connected with frontend using react.js
- Users can vote for their favorite movies, Display of vote counts, Tamper-proof system ensuring the security and integrity of votes, Transparent voting process visible on the blockchain

Skills Developed: React.js, Solidity, Polygon, Ethereum, Ethers.js, Filecoin

THERA-BOT

- AI-based virtual mental health assistant to provide accessible, affordable, and proactive mental health care.

Tagline

Data Engineer; ML Engineer and An A.I. Enthusiast; Blockchain Developer

Skills

React.js | Data Science | Deep Learning | Machine Learning | Solidity | Javascript | Python | Tensorflow | Flask | REST

Education

SRM University, Ramapuram Campus
B.Tech, Computer Science Engineering (CSE) | 9.4 CGPA
2020 - 2024

JAVIYA SCHOOLING SYSTEM
Class X | 9.3 CGPA
2018 - 2018

SRI N.P Bhalodiya High School
Class XII | 7.9 CGPA
2020 - 2020

Certifications & Courses

Python for Data Science and Machine Learning Bootcamp

- Learned basics of Python, Data Preprocessing, Data Visualisation and various Machine learning Algorithms useful in Data Science

February 2023 | Certificate Link

Microsoft AI Classroom Series

- Attened the AI classroom series organised by NASSCOM in associated with Microsoft

December 2020 | Certificate Link

GOOGLE KICKSTART 2021

- Attempted 2 rounds of Google Kickstart 2021 (Coding Competition)

April 2021 | Certificate Link

PROJECT EXPO 2023 at SRM University

- Built and Pitched the project: A.I. POWERED HEALTH DIAGNOSTIC SYSTEM

February 2023 | Certificate Link

JAVASCRIPT Certification by SRM AXIS INTELLECTS

- The virtual mental health assistant uses neural networks and natural language processing to analyze user input. The system then provides personalized mental healthcare recommendations based on the analysis.

- Symptom Checker: This module allows users to enter their symptoms and receive an initial diagnosis. Therapy Recommendations: This module provides personalized recommendations for therapy sessions. Chatbot: This module allows users to communicate with the virtual assistant for personalized support.

Skills Developed: React.js, API, NodeJs, ExpressJs, Javascript, Machine Learning

Chain Drive - Decentralised Cloud Storage system 🔗 ▶️ </> 🌐

- The naive storage systems in web 2.0 has a central authority in power although the data is encrypted but is not safe and is hackable. Most of the web 2.0 storage providers store the data in 1 or 2 locations which makes the data vulnerable of being lost. Solving these problems IPFS has a decentralised system to store the data by distributing it amongst multiple nodes and 2-3 copies are stored which makes it extremely safe to use. Coming to vulnerabilities, it can only be attacked by 51% attack which is almost impossible, so it is safe. Also the data is encrypted before storing to hide it from a user who the data doesn't belong to or is not given the access to. There is no simple website that uses IPFS. So, we've made a DAPP which ease the things for the user to store the data in a decentralised way and give them multiple functions to enhance UX.

- Using IPFS and Smart Contracts We developed Chain Drive that allows user to access/restrict the data to the given user.

- User can allow access, restrict access to particular file uploaded on the drive.

Skills Developed: Solidity, IPFS, React.js, smart contracts, Ethereum, Polygon

- This certification is awarded for the completion of complete Javascript course by SRM AXIS Intellects

May 2021 | Certificate Link

Position of Responsibility

PR Head of Campus Life at my University   Link

- I used to handle marketing stuffs of non-technical events at university levels as well as to bring up the sponsors that can fund the events

- Campus Life is the community that handles every non-technical and cultural events at my university

Technical Head at Student Community [TechWiz]   Link

- I have conducted many Technical events in my university at huge level. Also have conducted mini-hackathon named as "PAIR-A-THON" at my University's Technical Fest

Technical member of Google Developers Students Club   Link

- I have helped GDSC community in many technical aspects

- Also conducted Technical Event : ASJ 2022 (Android Study Jams 2021)

- I have 1 year of working experience in this community

- Also was active content writer and blog writer

Achievements/ Extracurricular Activities

- Winner of HACK SRM 4.0 Hackathon (project: VoteFlicks; award title: Best Blockchain)

- Microsoft AI classroom series

- Google KickStart 2021 [1300 Rank]

- CodeChef - 3 star