

MD ARHAM ALI

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Education

Indian Institute of Technology, Kharagpur

Nov. 2022 – Present

Bachelor of Technology in Agricultural and Food Engineering

Project

Fraud detection Model | *Python, Random forest, scikit-learn*

- Developed ML model using Random Forest to classify taxable income achieving 85 percent accuracy for fraud detection.
- Utilized Python, pandas, numpy, scikit-learn for data preprocessing and model development.
- Proficient in Machine Learning, utilizing the Random Forest algorithm to enhance fraud detection capabilities.

Fund Me Smart contract on EVM Blockchain | *Solidity and Hardhat*

- Developed secure crowdfunding "Fund Me" on Ethereum test net, enhancing transparency and security.
- Implemented smart contracts using solidity with Hardhat integration for enhanced crowdfunding capabilities.
- Mastered contract deployment and interaction using Remix IDE, with expertise in Ethereum and Chainlink.

Deep Neural Network for Image Classification | *python, Google colab and Tensor flow*

- Developed and trained deep neural network models for image classification, with expertise in deep learning techniques.
- Utilized Python, TensorFlow, and Keras to implement deep neural networks for image classification.
- Gained deep learning experience for image classification, including data prep and model optimization.

Trading Result Analysis | *python, Numpy, Pandas, Matplotlib*

- Evaluated the performance metrics and profitability of algorithm-generated trades to inform strategic enhancements.
- Used Python, Pandas, NumPy, Matplotlib, Seaborn and MQL4 for financial data analysis and strategy testing.
- Skilled in statistical techniques for data analysis, trade performance evaluation, and financial strategy optimization.
- Achieved 56.63 probability of profit over 100 trades, with profit to loss ratio 1.6.

Netherminds De-Fi Research Internship | *SQL, Dune Analytics, Flipside*

- Engaged in De-Fi research, with a focus on staking protocols, liquidity pools, yield farming, and tokenomics.
- Analyzed blockchain data with Dune for valuable insights into transactions and network behavior.
- Utilized Dune, a blockchain analytics platform, for in-depth analysis, extracting valuable insights to enhance understanding of blockchain ecosystems.

Relevant Coursework

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|------------------------------|-----------------------------------|-------------------------------------|
| • Probability & Statistics | • Linear Algebra | • Course on Ethereum and Blockchain |
| • Advanced Calculus | • Programming and Data Structures | • Solidity for Smart Contracts |
| • Supervised-unsupervised ML | • Advanced Learning Algorithm | • Financial Management |

Technical Skills

Languages/Libraries: Python, Matlab, C, C++, solidity, SQL, Pandas, Numpy, Matplotlib, Tensorflow

Frameworks: NodeJS, React JS, Pytorch, Django

Developer Tools: VS Code, Google Colab, Jupyter Notebook, GitHub, Hardhat

Skills: Machine Learning, Deep Learning, Data Analytics, DeFi Researcher, web development

Positions Of Responsibility

Development member | Kharagpur Blockchain Society | IIT Kharagpur

2023 – Present

- Engaged in community projects at IIT Kharagpur, collaborating on initiatives that drive positive impact in campus.
- Active member of Kharagpur Blockchain Society, contributing to blockchain knowledge promotion.
- Organized and actively participated in blockchain Hackathons and events, playing a pivotal role in nurturing a thriving blockchain community on campus

Extra Curricular Activities

- Part of Hockey team of Rajendra prasad Hall of residence, IIT Kharagpur
- Secretary of Hockey at RP Hall, managing Inter-Hall Hockey Tournament and coordinating with other position holders.
- De-Fi Researcher at Nether-minds, enthusiastic about Blockchain Ecosystem.
- Skilled in Arduino microcontroller use, component integration, and coding for diverse DIY projects. Strong understanding of Arduino Uno circuitry.