Malla Jyotsna Sree Mahima

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OUTLINE

As an ambitious professional, I am continuously seeking new opportunities to leverage my technical and analytical skills to drive innovation and success in the software development industry and aspire to pursue a master's degree in computer science.

EDUCATION

B.Tech in Computer Science and Engineering, Vellore Institute of Technology   **Vellore, India**
2018 - 2022, Cumulative CGPA: 8.93/10

Class XII, South Point High School   **Kolkata, India**
2018, Percentage: 80

Class X, South Point High School   **Kolkata, India**
2016, CGPA: 10

SKILLS

SAP: S/4 HANA, ABAP programming, CDS, IDocs, Smartforms, SAP, UI5, Fiori, OData, User Exits, BAPIs, BADIs, OSS Notes, BTP Extensibility

Programming and Scripting Languages: Java, Python, ReactJS, HTML, CSS, JavaScript, NodeJS

Databases: MySQL, PostgreSQL, Oracle

Tools/Frameworks: PowerBI, PowerApps, Numpy, Pandas, Scikit-Learn, NLTK, Torch, TensorFlow, Flask, Rest

Cloud: AWS, Azure

PROFESSIONAL EXPERIENCE

Shell India Markets Private Limited, Software Engineer, August 2022 – Present   **Bangalore, India**

- Currently working as an ABAP developer in S/4 Central Finance (CFIN) Project which aims to crystallize the organization's Enterprise Finance Data Model (EFDM), creating an enterprise-wide single source of financial information with consumer grade user experience that allows Finance to double down on its role as a commercial analytics partner to the business.
- I work in ABAP developments which includes ALV reports, CDS, IDocs, Smart forms, SAP UI5, Fiori, OData, User Exits, BAPIs, BADIs, OSS Notes, BTP Extensibility and other frontend technologies.
- Received CFIN High Five Recognition from the Leadership team for delivering the Application Interface Framework (AIF) Error Handling Snapshot Trend Analysis Dashboard which drills down the errors based on different AIF parameters and shows the day-to-day trend analysis to different stakeholders based on their requirements.

Indian Institute of Technology, Kharagpur, Research Intern, December 2020 – March 2021   **Kharagpur, India**

- Created an efficient and accurate deep-learning model which focuses on the clinical implications of iron overload, tropic hormones, and oxidative stress biomarkers on severity of β–thalassemia patients as well as understating their interactive effects. (Research paper published in International Elsevier Journal) (Link: https://doi.org/10.1016/j.arres.2022.100034)
- Built a novel machine-learning model to understand the relationship between the derangement of gonadal hormone and oxidative stress in β–thalassemia patients. (Accepted for publication in the International peer-reviewed Journal Trends in Clinical and Medical Sciences)

PROJECTS

Hybrid Neural Network Model for predicting the News Impact on Bitcoin Prices, December 2021 – July 2022

- Built a novel hybrid neural network models using Long Short-Term Memory (LSTM), Gated Recurrent Units (GRU) its ability to forecast the bitcoin early market movement using news sentiment in the Covid-19 era.

Quality Analysis and Classification of Rice Grains, December 2020 – July 2021

- Image reduction, image enhancement, and image increment, object recognition in spatial domain is applied on

images of rice grains to classify it according to the aspect ratio of rice grains.

Real Time Malware Detection Using Machine Learning Algorithms, July 2020 – November 2020

• Built different machine-learning models to compare its efficiency and performance to detect the malware infected
program files using algorithms such as XG Boost, Random Forest, and Naive Bayes.

PUBLICATIONS

• **Identification of severity and passive measurement of oxidative stress biomarkers for β–thalassemia patients: K-means, random forest, XGBoost, decision tree, neural network based novel framework.** (Elsevier Advances in Redox Research) (Link : https://doi.org/10.1016/j.arres.2022.100034)

• **A Deep Learning based Model for Predicting the future prices of Bitcoin.** (Presented this paper in IEEE VITECON 2023) (Link : https://ieeexplore.ieee.org/abstract/document/10157841)

• . Low-Cost Smart Plant Irrigation Control System Using Temperature and Distance Sensors. (Presented this paper in Springer ICSCSP 2022) (Link : https://doi.org/10.1007/978-981-19-8669-7_25)

• **Fish Feeder System Using Internet of Things.** (Presented this paper in Springer ICBCC 2022)
(Link : https://doi.org/10.1007/978-981-99-1051-9_17)

• **Bidirectional Gated Recurrent Unit (BiGRU)-Based Bitcoin Price Prediction by News Sentiment Analysis.** (Presented this paper in Springer ICSCSP 2022) (Link : https://doi.org/10.1007/978-981-19-8669-7_4)

• **An Analysis of the Blockchain Based E-Healthcare Systems using A Bibliometric Study.** (Journal paper accepted in the Springer International Journal of Information Security.)

• **Derangement of gonadal hormone and its relation with oxidative stress for β–thalassemia patients.** (Journal article accepted for publication in the International peer-reviewed journal Trends in Clinical and Medical Sciences.)

• **An Analysis of the Blockchain Based E-Healthcare Systems using a Bibliometric System.** (Journal article accepted for publication in the Springer International Journal of Information Security.) (Link for preprint: https://www.researchsquare.com/article/rs-3330423/v1)

CERTIFICATIONS

• **Security Analyst SAP Certified Development Specialist – ABAP for SAP HANA 2.0,** SAP, December 2023
• **Microsoft Certified: Azure Fundamentals,** Microsoft, December 2023
• **Security Analyst (SSC/Q0901),** NASSCOM, August 2021
• **Introduction to Cyber-Security**, Cisco Networking Academy, December 2021
• **Digital Skills: Artificial Intelligence**, FutureLearn Accenture, April 2022
• **Google Analytics for Beginners**, Google Analytics Academy, April 2022
• **Software Engineering Virtual Experience**, JP Morgan Chase & Co., December 2021

EXTRA CURRICULAR ACTIVITIES

• Core Member in the NGO Service to Society. Volunteered and organized various events such as Blood Donation Camp and Education sessions. (April 2019 to April 2020)

• Core Member in the Entrepreneur Cell, club in VIT. Organized various technical events such as E-Summit 2019 and non-technical events and was a Coordinator for a national level fest and a hackathon. (December 2018 to April 2020)

• Fun at Work core member in Shell India Markets Private Limited. Organize fun events at frequent intervals to help inculcate the feeling of well-being and togetherness among the employees.

ACHIEVEMENTS

• **CFIN High Five Recognition** from the Leadership team in Shell for delivering the **Application Interface Framework (AIF) Error Handling Snapshot Trend Analysis Dashboard**. (June 2023)

• **Third Runner up** title in FinTech Domain in VIT Hackathon for **Cryptocurrency Price Forecasting Tool**. (October 2021)