Mushrifah Hasan

mushrifahhasan@gmail.com | +919920536165 | Mumbai, India
linkedin.com/in/mushrifah-hasan | mushrifah.github.io

ABOUT ME

Motivated and detail-oriented data scientist with a master's degree, skilled in data analytics, visualizations, predictive analytics, and machine learning, enthusiastic about Deep Learning, collaborative, positive attitude and always exploring and learning.

TECHNICAL SKILLS

Key Skills: Python, SQL, Keras, Grafana, Apache superset, TensorFlow, Flask, Tableau, Docker, AWS, Git,Pytorch, MongoDB,C/C++

EDUCATION

Sardar Patel Institute of Technology, Mumbai, India (2020 - 2022)
MTech, Computer Engineering (CGPA: 9.85/10)

Computer Vision Nanodegree, Udacity (View) (2019 - 2020)

University of Mumbai, Mumbai, India (2016 - 2020)
B.Tech, Computer Engineering (CGPA: 8.12/10)

Data Foundations Nanodegree, Udacity (View) (2018)

WORK EXPERIENCE

Data Scientist: Mobicule Technologies Pvt. Ltd (Oct 2022- present)

- Identify key **business KPIs and metrics** using Machine Learning and Business Intelligence.
- Developing complex queries with **SQL** for data analysis and modeling from data collected from different sources.
- Developing **dashboards** using tools like **Grafana, and Apache Superset** to display key metrics and insights for stakeholders.
- Deploying a dashboard along with authentication of users using technologies like **Keycloak**, **AWS** and **Docker**.
- Collaborated with cross-functional departments to integrate ideas into products and develop Machine Learning solutions for the **mcollect product**.
- Contributing to developing data-driven insights with **Python, SQL,** and **Machine learning techniques** to support debt collection and recovery efforts.
- Actively seek opportunities to learn and stay up-to-date on the latest technologies and techniques in the field.

Machine Learning Intern: Mobicule Technologies Pvt. Ltd (Sept 2021 - Sept 2022)

- Comprehensive analysis and recommended solutions to address business problems.
- **Descriptive Statistics, Exploratory Analysis, Data pre-processing along with Machine learning algorithms.**
- Hands-on Experience in **data modeling and predictive analytics** in Banking, Telecom Industries and working with large complex datasets along with **classification and clustering** based machine learning algorithms.
- Identify and allocate achievable realistic targets as per profile and demographic conditions.
- Analysis of historical data and predicted data to provide recommendations by using continuous improvement i.e. making use of present data as feedback in setting achievable realistic targets.
- Demonstrated strong problem-solving and communication skills in a team environment.

PROJECTS

Depression Detection based on Sentiment Analysis in Social Media using Deep Learning (View)

- Dataset is created by scrapping tweets with keywords depicting depression.
- Implements a two-step depression detection system using deep learning language modeling in **Keras, Tensorflow,** and deployed the model as a **web application** with **flask**.

Stress Detection in Tomato Plants with thermal images using Deep Learning (View)

- The thermal images of tomato plants are collected using a thermal camera.
- Trained **deep convolutional neural network** using ResNet-34 architecture in **PyTorch** and deployed the model as an android application with the help of the **flask** server.

PUBLICATIONS

- Data-driven Depression Detection System for Textual Data on Twitter using Deep Learning, IEEE, 2022 (View)
- Application of Deep Learning Coupled with Thermal Imaging in Detecting Water Stress in Plants, Book: Design of Intelligent Applications using Machine Learning and Deep Learning Techniques, 2021 (View)
- Image Processing based application of Thermal Imaging for Monitoring Stress Detection in Tomato Plants, IEEE, 2019 (View)