



Shenin Francies

Data Scientist

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SheninFrancies.github.io

SKILLS

Data Science with Python

Numpy Pandas Scipy

Matplotlib Seaborn

Scikit-learn

Deep Learning

TensorFlow Keras

Computer Vision

OpenCV YOLO Mediapipe

Data Visualization

PowerBI Tableau

Cloud Platform

Amazon Web Services

Engineering

Electronics PCB Design

Medical Equipment Calibration

Others

MATLAB MySQL Docker

SQL Server Management Studio

I am looking to transition to data science, following my stint as an Intern at Luminar Technolab where I sharpened my coding skills and analytical mindset. I can assimilate ideas quickly and be productive in a fast-paced environment. Areas I am passionate about include Data Analysis, Machine Learning and Computer Vision.

PROFESSIONAL EXPERIENCE

Luminar Technolab, India

(07/2022 - 03/2023)

Intern - Data Science

- Familiarized with the process of Data Cleaning & EDA utilizing relevant python libraries such as Pandas, Matplotlib etc.
- Applied Supervised and Unsupervised Machine Learning techniques on datasets to evaluate its performance on the unseen data.
- Derived meaningful insights that add business value to the organization through data visualization tools such as Tableau and PowerBI.
- Mastered the fundamentals of OpenCV and Mediapipe through key projects.
- Developed a strong foundation in Neural Networks and Deep Learning frameworks such as Tensorflow and Keras.
- Familiarized with real-time object detection system through YOLO.

Institute of Technical Medicine, Germany

(08/2021 - 10/2021)

Research Assistant

- Researched the Two- and Four-Electrode methods pertaining to Electrical Impedance Tomography.
- Built circuits, assessed its signal strength and improvised the circuits for optimal performance.

EDUCATION

Hochschule Furtwangen University, Germany

(09/2019 - 03/2022)

Master of Science, Biomedical Engineering

Grade: 85%

- Development of electrical measurements for biological tissues.
- Temporal Recruitment of lung units and their impact on lung compliance using MATLAB.
- Fundamentals of Artificial Intelligence in Medicine and Artificial Organs.

Heriot-Watt University, United Arab Emirates

(09/2016 - 11/2019)

Bachelor of Engineering, Electrical & Electronics Engineering

Grade: 90%

- Development of a prototype of a user-interactive robot for theme parks in a laboratory environment using C and C++.
- Calibration and sequential analysis of differential control of a prototype robot in a laboratory environment using C.
- Fundamentals of Control Systems & Applications in Power Engineering.

CERTIFICATIONS

Data Science - Python

National Council for Technology and Training, India

Certified Practitioner - Project Management

Excellenter Institute, Spain

Big Data Foundations - Level 02

IBM, India

LANGUAGES

English

Native

Malayalam

Native

German

Working Professional

French

Beginner

WORK SAMPLES

Evaluation of Performance Metrics in Machine Learning

(09/2022 -

01/2023)

Study the effects and/or influence of over-/under-sampling, accuracy, ROC & Precision-Recall Curves on the predicted outcomes.

Milestone Project: Application of NLP & ML techniques to classify a drug review and evaluate the performance metrics using ROC and Precision-Recall Curve.

➦ www.github.com/SheninFrancies/Machine-Learning-and-Data-Science

Supervised & Unsupervised Machine Learning

Natural Language Processing

Comprehension & Evaluation of Performance Metrics in Computer Vision

(01/2023

-

02/2023)

Understand the fundamentals of Performance Metrics such as IOU and mAP and attempt to study their effects on the accuracy in predictions.

Milestone Projects:

- Automated Media Player Control using hand gestures & Drowsiness detection.
- Car Counter, People Counter; Custom Training using YOLOv8 to detect Personal Protection Equipment & Surgical Instruments.

➦ www.github.com/SheninFrancies/Deep-Learning-and-Computer-Vision

OpenCV

Mediapipe

YOLO

Exploration of valuable insights by querying databases and seamlessly integrating with Tableau.

(03/2023 -

03/2023)

Understand the Fundamentals of SQL utilized to Query Databases for data cleaning and exploration.

Milestone Projects:

- Data Exploration on the up-to-date Covid-19 Dataset using MS SQL Server Management Studio to find insights on the mortality and vaccination during the pandemic.
- Data Cleaning using MySQL on the Nashville Housing dataset to remove redundant columns and make the data more readable and usable.
- Understanding Database Triggers through implementation on an instagramesque clone created from scratch.

➦ www.github.com/SheninFrancies/SQL

MySQL

Microsoft SQL Server Management Studio