

Jeswin Arul Samuel

Technical Trainer ■ Data Specialist

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An experienced professional with 9 years of experience in training students and working professionals in various technical domains and soft skills.

- 5 years of experience in python training
- 5 years of experience in Data Analytics and Data Science training
- 5 years of experience in Robotics and Embedded systems training
- 4 years of experience in Internet of Things training
- 2 years of experience in Soft skill training
- 8 years of experience in developing training curriculum

SKILLS

Programming & Tools

- Python
- SQL
- JavaScript
- C / C++
- Embedded C
- Shell
- MS Excel
- Power BI, Tableau
- Python Notebooks

Data Analysis & Business Intelligence

- Statistics
- Hypothesis Testing
- A/B Testing
- Pattern Mining
- Time series Forecasting
- Predictive Analysis
- CHURN Analysis
- Data Quality and Validation
- RFM Analysis

Data Science

- Mathematics
- Linear Models
- Tree – based models
- Probability - based models
- Neural Networks based models
- Deep Learning models
- Transfer Learning
- Generative AI
- Large Language Models

Python Frameworks

- Pandas
- Numpy
- Matplotlib & Seaborn
- Scikit-Learn & Scipy
- Tensorflow & Keras & Pytorch
- OpenCV
- Statsmodels

Technical Training

- Adult Learning techniques
- Instructional Design
- Problem solving
- Communication (English C2 level)
- Hands-on training
- Curriculum development
- Interpersonal skills

Full Stack Development

- Node.JS
- ReactJS
- Postman
- MongoDB
- ExpressJS
- NPM

PROJECTS

Social Media app using MERN Stack:

Built a social media application; the back end using **node.js** which data stored on **MongoDB** and the frontend using **React JS**. The app had a Log In/Register page, a home feed page, the feature to add friends and follow other pages, and also the feature to upload images and write posts on your feed. It also had a profile page to maintain the users profile information.

Machine Learning model to predict diseases:

Developed predictive machine learning models to predict the occurrence or probability of occurrence of cardiovascular disease and diabetes based on various factors of a person. The developed model was able to predict the outcome with a 87% accuracy on real time data. Various models were trained using a training dataset and the models were evaluated using accuracy metrics and ROC characteristics. The best model was then deployed using flask and fast-api. All the programming for the project was done using the python language and python based frameworks.

Detection of diseased crops and counter- measure deployment using drones:

Built a drone with a camera and payload containing pesticides. The camera was used to monitor crops and identify the disease in the crops and then deploy the relative counter measures which are loaded on the drones as payload. A deep-learning model was trained using diseased crops images and then deployed on the drones processor to detect the disease on edge. The video overlays where captured and the frame of the disease crop was identified using open-CV, then the disease was identified by the DL model and necessary payload was delivered. All the programming for the project was done using the python language and python based frameworks.

Human emotion detection based on facial activity and micro expressions:
Developed a deep learning model on the affectnet dataset to detect human facial expression with 76% accuracy. This project involved training a deep learning model using CNN to extract the features from images of facial expressions. Then the training was done using various DL algorithms like ANN, RNN and the best performing model was determined to predict the human emotion on a new image or video overlay. All the programming for this project was done using python programming language, TensorFlow framework and open-CV Api.

WORK EXPERIENCE

Python, Statistics, Data Science & Analytics Trainer Freelancer	Pan India Apr 2024 – Dec 2023
Business Intelligence Engineer Amazon	Luxembourg Jul 2023 – Dec 2023
Senior Curriculum Developer Informatica Business Solutions	Bangalore Nov 2021 – Aug 2022
Senior Trainer and Curriculum Developer Lema Labs Technologies Pvt Ltd	Chennai Apr 2018 – Sep 2021
Junior Trainer and Curriculum Developer Lema Labs Technologies Pvt Ltd	Chennai Oct 2015 – Mar 2018
Soft Skill Trainer Bootcamp Services	Coimbatore Jul 2014 – Apr 2015

EDUCATION

MSc Artificial Intelligence for Business Transformation SKEMA Business School	Paris, France Sep 2022 – Dec 2023
Post Graduate Diploma in International Management SKEMA Business School	Paris, France Sep 2022 – Dec 2023
BE Electronics and Communication Engineering KCG College of Technology	Chennai, India Aug 2010 – Jun 2014