

FATHIMATHU SAHLA CY

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SUMMARY

Professional Summary Data Science professional with a BA in Economics and a Diploma in Data Science, experienced in Python, Machine Learning, Deep Learning, and Data Analysis. Proficient in Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, and Keras. Hands-on experience in CNN, LSTM, image classification, sentiment analysis, and predictive modeling projects. Strong knowledge of statistics, data preprocessing, model evaluation, and feature engineering. Passionate about building data-driven solutions and applying analytical skills to solve real-world problems.

PROJECTS

FACE MASK DETECTION

github.FACE MASK

- Developed a CNN-based model to classify images as mask or no mask.
 - Performed image preprocessing including resizing, normalization, and data augmentation.
 - Trained and evaluated the model using accuracy and confusion matrix.
 - Implemented real-time face mask detection using OpenCV.
- Technologies: Python, TensorFlow, Keras, CNN,

MOVIE GENRE CLASSIFICATION

github.CLASSIFICATION

- Developed a machine learning model to classify movies into different genres based on plot summaries.
- Performed text preprocessing including tokenization, stopword removal, and TF-IDF feature extraction.
- Trained and evaluated the model using accuracy and confusion matrix.
- Improved performance through model selection and hyperparameter tuning.

SATELLITE IMAGE CLASSIFICATION

github.SATELITE

- Developed a CNN-based model to classify satellite images into different land cover categories
- Performed image preprocessing including resizing, normalization, and data augmentation.
- Trained and evaluated the model using accuracy and confusion matrix.
- Improved model performance through hyperparameter tuning and optimization techniques.

TECHNICAL SKILLS

Programming Language: Python

Data Analysis: Pandas, NumPy

Data Visualization BI Tools: Matplotlib, Seaborn,

Machine Learning: Supervised Learning, Unsupervised Learning, Regression, Classification, Clustering, Feature Engineering, Model Evaluation

Deep Learning: ANN, CNN, RNN, Transfer Learning, TensorFlow, Keras

NLP: Tokenization, Lemmatization, TF-IDF, Bag of Words, Sentiment Analysis

Computer Vision: Image Preprocessing, Feature Feature Extraction, Image Classification, OpenCV

Databases: MySQL

Operating System: Windows, Linux

EDUCATION

DIPLOMA IN DATA SCIENCE

2025

- EDURE LEARNING

BACHELOR OF ECONOMICS

2022 - 2025

- CALICUT UNIVERSITY