Krishnendu N G

Data Scientist

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💼 PROFESSIONAL EXPERIENCE

Data Science and Machine Learning Intern   10/2024 – present
LUMINAR TECHNOHUB   ERNAKULAM, India
• Carried out preliminary data analysis on large datasets, cleaning and processing the data for effective visualization and machine learning tasks.
• Built an intelligent chatbot using Rasa for a conversational book recommendation app.Integrated natural language understanding (NLU) capabilities to handle diverse user queries effectively.

Associate   03/2022 – 03/2024
Sutherland Global Service Pvt Ltd   ERNAKULAM, India
• Streamlined payroll processes by updating 500+ employee records monthly, resolving discrepancies in less than 48 hours on average and ensuring accurate compensation for all team members without delays or errors.
• Documentation uploading, documentation checking

🧠 SKILLS

• **Languages**
Python - Basic Data Structures, Object-Oriented Programming (OOP)

• **Data Analysis:**
Data mining,DAX ,Matplotlib,Seaborn

• **ETL Processes**
Extract, Transform, Load workflows for handling large datasets.

Tools
Streamlit, Flask, GitHub, Excel,Power BI

• **Relational Database**
Mysql

• **Machine Learning**
Supervised Learning, Unsupervised Learning, Scikit-Learn, Natural Language Processing (NLP)

• **Deep Learning**
Neural Networks (NN), Convolutional Neural Networks (CNN),Artificial Neural Network(ANN) ,Computervision,,TensorFlow, Keras, Large Language Models (LLMs)

📁 PROJECTS

Satellite Image Classification using CNN
• Developed and implemented a Convolutional Neural Network (CNN) to classify satellite images into various land cover categories.
• Collected and preprocessed satellite image data, including normalization and augmentation.
• Designed and implemented a CNN model architecture using *TensorFlow* and *Keras.* Evaluated model performance using metrics such as accuracy and achieved accuracy - 92%

Loan Approval Prediction Project
• Conducted a comprehensive analysis of a loan approval dataset, leveraging data preprocessing techniques to ensure data integrity and quality..
• Explored relationships between variables using **visualization tools** (e.g., count plots, violin plots, scatter plots) to identify patterns and insights relevant to loan approval status.
• Applied **feature engineering** techniques, including **label encoding** for categorical variables and outlier detection/removal using the IQR method, enhancing model performance.Evaluated multiple classification algorithms, to determine the most effective model for predicting loan approval.
• Addressed class imbalance in the dataset using **SMOTE (Synthetic Minority Oversampling Technique)**, improving model robustness.
• Achieved an accuracy of **98%** using **SVC** in predicting loan approvals, demonstrating the effectiveness of the modeling approach.

Restaurant Review Analysis using NLP
• Developed a sentiment analysis model to classify restaurant reviews into positive or negative using *k-Nearest Neighbors* (*kNN*) with an accuracy of 78%.
• Gathered data, Cleaned text data by removing special characters, stop words, and applying *tokenization* and *stemming*
• Implemented *TF-IDF* vectorization to convert text data into numerical features.

🎓 EDUCATION

Msc. Applied Electronics   07/2018 – 05/2020
School of Technology and Applied Sciences
(CGPA:3.05)

Bsc.Physics   06/2014 – 05/2017
Maharajas College ,Ernakulam
(CCPA:7.78)