JOYAL JOSE T.S

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PROJECTS

Data Science / Academic Project *Mar 2023 – Jul 2023*
RGNIYD *Chennai, TN*

— **Project Title:** Automated Golf Swing Analysis: A Computer Vision Approach
— Revitalized golf swing analysis through computer vision technology, quantifying crucial parameters including swing speed and posture to deliver precise and easily accessible feedback.
— Implemented the project, resulting in a 15% increase in golfers' swing consistency as measured by reduced swing variation.

Sentiment Analysis *Aug 2023 – Present*
Self Work *Kasaragod, Kerala*

— **Project Title:** Twitter Sentiment Analysis
— This project leverages Natural Language Processing (NLP) techniques to perform sentiment analysis on an integrated dataset. The project achieves an impressive 95% prediction accuracy by employing established Machine Learning algorithms.

Machine Learning Classication Projects *Aug 2023 – Present*
Self Work *Kasaragod, Kerala*

— **Project 1:** Credit Card Fraud Detection
— This project aims to assess the accuracy of fraud detection in credit card transactions by training a model using traditional Machine Learning algorithms.
— Achieved a 15% improvement in fraud detection accuracy using machine learning algorithms.
— **Project 2:** Spam Classification
— Within this endeavor, our goal is to construct a machine learning model with the ability to effectively differentiate messages into two categories: "spam" or "ham" (non-spam). We will leverage a dataset sourced from Kaggle, comprising annotated instances of both spam and non-spam messages, to achieve this classification task.
— Developed spam classification, achieving 95% accuracy.
— **Project 3:** Gold Price Prediction
— Forecasting Gold Prices with an Artificial Neural Network using an embedded Kaggle dataset.Created the model with an accuracy of 90%.

Web Application Development / Academic Project *Jan 2021 – Mar 2021*
Kannur University *Kasaragod, Kerala*

— **Project Title:** Web Application Development : Job Recruitment System
— Crafted an interactive web application, "Job Recruitment System," employing a robust tech stack, including HTML, CSS, JavaScript, PHP, and Xampp Server

EDUCATION

Rajiv Gandhi National Institute of Youth Development (RGNIYD) *Jul 2023*
Master of Science (MSc) - Computer Science (Data Science) *Chennai, TN*

Kannur University *Apr 2021*
Bachelor of Computer Application (BCA) *Kasaragod, Kerala*

SKILLS

— Python
— SQL
— Machine Learning
— Deep Learning
— Data Analysis
— Statistical Modelling
— Microsoft Office
— Microsoft Power BI
— Data Visualization
— NLP
— Big Data Analytics
— Time Series Analysis
— Data Wrangling Tools
— Data Mining
— Adaptability
— Group Collaboration

PUBLICATIONS

Paper Title | Automated Golf Swing Analysis; A Computer Vision Approach *Jun 2023*
Conference | National Conference on Mathematical Modelling, Analysis and Computation (NCMMAC-2023)
Description | Engaged in NCMMAC-2023, delivering a paper on showcasing the intersection of sports and technology.

CERTIFICATIONS

Data Analytics With Python | Swayam NPTEL *Jun 2023*
Affective Computing | Swayam NPTEL *Jun 2023*