LISA FERNANDES

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SKILLS

TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, Java, SQL
- Data Analysis and Visualization: pandas, seaborn, matplotlib, seaborn, Dash, D3.js
- Machine Learning/Deep Learning/NLP: scikit-learn, TensorFlow, Keras, NLTK
- Other: React, TypeScript, APIs, Django, Figma

TRANSFERABLE SKILLS: Time management, teamwork, communication skills, problem-solving, critical thinking, project management (Agile methodologies), research, and analysis.

EDUCATION

HERIOT WATT UNIVERSITY   DUBAI, UAE
B.Sc. (Hons) Computer Science (Artificial Intelligence) - First Class Honours   *July 2024*
- Deputy Principal's Award
- Relevant Courses: Data Structures and Algorithms, Data Mining and Machine Learning, Data Visualization and Analytics, Software Engineering.

PROFESSIONAL EXPERIENCE

AL YOUSUF GROUP   DUBAI, UAE
Software Development Intern   *June 2023 – August 2023*

Demonstrated a high level of dedication and professionalism under the guidance of the Internal IT Department. Collaborated closely with fellow teammates and excelled in multiple roles including Web Full-Stack Developer and UI/UX Designer.

Customer Relationship Management App (CRM)
- Developed a comprehensive CRM system to streamline sales pipeline management to increase sales efficiency.
- Automated email workflows to send targeted emails based on lead status and engagement history, optimizing follow-up processes and improving response rates.
- Skills & Tools: Python, Django, HTML/CSS

Sales Analysis and Forecasting
- Designed intuitive user interfaces, improving usability and presentation of sales data.
- Created interactive data visualizations to aid in analysis and forecasting, leading to more informed decision-making.
- Implemented machine learning algorithms to predict sales trends based on external factors and historical data.
- Skills & Tools: Dash, Plotly, Python

PROJECT EXPERIENCE

AI-Powered Book Recommendation System   *Present*
- Developing a recommendation system using content-based filtering.
- Implementing algorithms in Python using Scikit-learn and Pandas.
- Creating an interactive front-end using React and TypeScript to enhance user experience
- Skills & Tools: React, TypeScript, Python, Scikit-learn, Pandas, Figma

Alzheimer's Disease Prediction using EEGs (Thesis Project)   *Sept. 2023 – March 2024*
- Led end-to-end development of a machine learning model to predict Alzheimer's disease using EEG signals.
- Conducted in-depth literature analysis to identify patterns and correlations relevant to Alzheimer's disease.
- Performed comprehensive data preprocessing, including preprocessing, data augmentation, and feature extraction from EEG data.
- Built and evaluated advanced machine learning models using Python, TensorFlow, and scikit-learn, achieving a prediction accuracy of 96%.

- Implemented explainable AI(XAI) methods to ensure the interpretability and transparency of model predictions.
- Skills & Tools: Python, TensorFlow, scikit-learn, pandas, research and analysis, critical thinking.

Data Analytics Dashboard *Jan. 2024 – March 2024*

- Designed and developed the front end for a web-based dashboard showcasing player and team metrics in cricket.
- Created interactive charts using D3.js to enable real-time data exploration and visualization.
- Implemented JavaScript for dynamic content rendering and HTML/CSS for responsive design.
- Collaborated with a team to integrate back-end APIs for data retrieval and ensure seamless functionality.
- Skills & Tools: Javascript , HTML/CSS, D3.js

Image Classification for Traffic Signs *Sept. 2023 – Dec. 2023*

- Pre-processed and explored traffic sign image data using NumPy and Matplotlib.
- Implemented various supervised and unsupervised machine learning and deep learning techniques.
- Applied hyperparameter tuning and optimization techniques to enhance accuracy.
- Showcased the project as part of a portfolio to demonstrate deep learning and computer vision proficiency.
- Skills & Tools: Python, TensorFlow, Keras, NumPy, Matplotlib.

Sentiment Analysis of Social Media Data *Jan. 2024 – March 2024*

- Collected and pre-processed YouTube comments to determine sentiment for specific topics.
- Implemented logistic regression and natural language processing techniques to classify sentiments.
- Classified Amazon reviews into positive, negative, or neutral categories.
- Achieved an accuracy of 83% in sentiment classification.
- Skills & Tools: Python, NLTK, seaborn

Software Engineer Project (Scrabbit) *Sept. 2022 – March 2023*

- Participated in an agile development project with a team, resulting in the successful creation of a scrapbooking AR-based application.
- Spearheaded the development of a marketing plan for the app as well as the documentation.

CERTIFICATIONS

Oracle Cloud Infrastructure 2024 Generative AI Certified Professional *July 2024*
- Understanding of Large Language Models
- Proficiency in OCI Generative AI services
- Exam Score: 82.5%