AZLAN KHAWAR

CONTACT

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https://github.com/azlan18

SKILLS

Core Programming

- C
- C++
- Java
- Python

Web Dev

- JS
- MERN Stack
- Flask

Data Science

- Data Preprocessing
- Data visualisation
- Pandas, NumPy, Scikit-learn
- NLP, Tensorflow
- Streamlit

EDUCATION

D.J Sanghvi College of Engineering

2022 - Present

B.Tech Artificial Intelligence and Machine Learning

Pace Junior Science College - 91.5%

2019-2021

HSC - Physics, Chemistry, Math + Comp.Sci

Rizvi Springfield High School - 92.2%

2019

CBSE

CERTIFICATIONS

• Deep Learning Specialization - Coursera

• The Complete 2024 Web Development Bootcamp - Udemy

• Master statistics & machine learning: intuition, math, code - Udemy

PROFILE

I am a second year undergrad student at the department of Artificial Intelligence and Machine Learning. Interested in Natural Language Processing and Reinforcement Learning. Currently in search of my first internship in Data Science. I bring a practical problem-solving approach and a willingness to learn, aiming to kickstart my professional journey in a practical, results-oriented environment. I am dedicated to maintaining a strong work ethic and approaching tasks with a proactive mindset.

PERSONAL PROJECTS

Lip Reading Deep Learning Project

Developed a deep learning model for lip reading using TensorFlow and OpenCV. Key highlights include:

- **Data Processing**: Implemented video loading and preprocessing functions for grayscale conversion, cropping, and normalization.
- **Data Pipeline**: Designed an efficient data pipeline with TensorFlow's Dataset API, incorporating shuffling, batching, and prefetching.
- **Model Architecture**: Constructed a deep neural network comprising Conv3D, LSTM, and Bidirectional LSTM layers for sequence modeling.
- **Training and Evaluation**: Configured training with Adam optimizer and custom CTC loss function. Evaluated model performance with real-time examples during training epochs.
- **Deployment**: Deployed the model using Streamlit, allowing interactive video selection and real-time prediction visualization.
- **Technical skills**: Deep Learning, TensorFlow, OpenCV, StreamLit

Integrated Analysis and Predictive Modelling

- **Conducted in-depth exploration** of breast cancer patient data, analyzing diverse features like protein levels, tumor stages, and patient status.
- **Implemented data processing, exploratory data analysis (EDA), and predictive modeling** techniques to extract insights from the dataset.
- **Leveraged Lazy Predict library** for streamlined application of multiple classification algorithms to identify promising models for accurate predictions.
- **Demonstrates expertise** in medical data analysis and application of machine learning to healthcare challenges.

InventoGPT: ML Enhanced Inventory Management System

- **Streamlined inventory management system** with data analysis, frequent itemset mining, association rule mining, real-time inventory monitoring, and demand forecasting
- **Technical Skills**: CatBoost, Apriori Algorithm, Streamlit

Dog Breed Identification – Deep Learning Model

• End-to-End multi-class image classifier using TensorFlow 2.x and TensorFlow Hub.
• Technical Skills: Python, TensorFlow, Transfer Learning

EXPERIENCE

DJS Compute, DJSCE Sep 2023 - Present

Data Analytics & Machine Learning Mentee

- Collaborating with experienced Machine Learning mentors to enhance my skills in the arena of Machine learning and Data Analysis
- Actively participating in hands-on projects to gain practical experience in Machine Learning
- Learning and applying industry best practices, coding standards, and emerging technologies