ALAN BINU MATHEW

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EDUCATION

VIT Bhopal University	**8.12 CGPA**	September 2021 Onwards
Bachelor of Technology in Computer Science Engineering with specialization in AIML	Bhopal, Madhya Pradesh
Bhavans Vidya Mandir	**88.2%**	May 2020 – April 2021
Class XII, PCMB	Pathanamthitta, Kerala
Emirates National School	**85.8%**	April 2018 – May 2019
Class X, (General)	*Sharjah, UAE*

TECHNICAL SKILLS

Languages: Python, SQL
Databases: MySQL
Tools and Platforms: Git,Github, AWS, GCP
Libraries: Tensorflow, Pytorch, Scikit Learn, Keras

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Google Cloud Digital Leader

EXPERIENCE

Artificial Intelligence Intern   December 2022 – January 2023
Aican Private Ltd.

- Conducted EDA on a dataset, analyzing key patterns and feature distributions. Generated visual insights to inform data preprocessing and model selection.
- Preprocessed data by handling missing values and standardizing features, reducing noise and improving model performance by **15%**. Optimized data quality to enhance model accuracy.
- Developed a **Random Forest Classifier** and achieved **92% accuracy** on test data.
- Improved model prediction reliability, boosting F1-score by **12%**. Fine-tuned hyperparameters to maximize classification precision and recall.
- Documented findings and presented them to the team to support decision-making.

    Skills used: Python, Pandas, Numpy, Scikit Learn

PROJECTS

Monitoring Systems For Fake Product Reviews | Python, NLTK, Pandas   December 2022
- Developed a fake review detection system using **Decision Trees** and **Artificial Neural Networks**, achieving **90% accuracy** in classifying reviews. The model analyzed **5,000+ reviews** to detect authenticity based on text content, sentiment, and writing style.
- Applied **natural language processing (NLP)** techniques such as sentiment analysis and text classification, improving detection precision by **15%**. This allowed for the identification of **85%** of fake reviews in the dataset.
- The system helped enhance trustworthiness by flagging fraudulent reviews with minimal false

positives, improving review quality for businesses.

   Link: https://github.com/AlanBinu23/Monitoring-Systems-For-Fake-Product-Reviews

Smart Pest Management In Rice Cultivation | Python, Scikit-Learn, Matplotlib   September 2023

- Developed a mobile app that allows farmers to capture high-resolution images of pests, with **80 epochs** of training on a CNN model. The model achieved **78% accuracy** in identifying pests and diseases in rice crops.
- The app processes **5,000+ pest images**, offering pest identification with a confidence level and recommending **organic and synthetic pesticide options**. It supports **English and Hindi** languages for broader accessibility.
- Utilized **JSON data** to retrieve detailed pest information, providing farmers with actionable insights and control methods for over **10 common pests**.

   Link: https://github.com/AlanBinu23/Smart-Pest-Management-In-Rice-Cultivation/tree/main

RESPONSIBILITIES

- Served as the disciplinary head of Malayalam Club at VIT Bhopal, managing a team of over 150 students and organizing events and programs.

ACHIEVEMENTS

Sports

- Led the Under-19 school Football team to a 4th place finish in interschool competitions, showcasing strong leadership and team coordination skills.

HOBBIES

- Passionate Pianist
- Expressive Sketching
- Avid Reader

LANGUAGES

English, Hindi, Malayalam