

ALAN BINU MATHEW

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EDUCATION

VIT Bhopal University | 8.23 CGPA

Bachelor of Technology in Computer Science Engineering
with specialization in AIML

September 2021 Onwards

Bhopal, Madhya Pradesh

Bhavans Vidya Mandir | 88.2%

Class XII, PCMB

May 2020 - April 2021

Pathanamthitta, Kerala

Emirates National School | 85.8%

Class X, (General)

April 2018 - May 2019

Sharjah, UAE

TECHNICAL SKILLS

Languages: Python, SQL

Databases: MySQL

Tools and Platforms: Git, GitHub, AWS, MS Excel, Power BI

Libraries: TensorFlow, PyTorch, Scikit Learn, Keras

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- IBM - Data Analyst
- Google Cloud Digital Leader

EXPERIENCE

Artificial Intelligence Intern

Aican Private Ltd.

December 2022 - January 2023

- Conducted EDA on a dataset, analysing key patterns and feature distributions. Generated visual insights to inform data preprocessing and model selection.
- Pre-processed 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 analysed **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, Tamil