Alan Jiji Varghese

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EDUCATION

VIT Bhopal University — *Bhopal, Madhya Pradesh*
Bachelor of Technology in Computer Science with specialization in Artificial Intelligence (CGPA: 9.27) — Sep 2023 – May 2027

Delhi Public School, Bhilai — *Bhilai, Chhattisgarh*
Higher Secondary School (Percentage : 86.8%) — Apr 2021 – May 2023

Delhi Public School, Bhilai — *Bhilai, Chhattisgarh*
Higher Secondary School (Percentage : 94.5%) — Apr 2019 – May 2021

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, SQL, Java, HTML, CSS
- **Libraries & Tools:** NumPy, Pandas, Scikit-learn, OpenCV, Tableau, Matplotlib, IBM Watson Assistant, IBM Cloud, IBM WatsonX

PROJECTS

NSFW-Content-Detection — Jan 2025 – Present
Deep Learning Project — *Python, TensorFlow, OpenCV*
- Coached a model for automated NSFW content detection on social media platforms, addressing critical moderation challenges with 93.17% accuracy.
- Implemented a Convolutional Neural Network (CNN) for robust image feature extraction on a dataset containing more than 5000 images.
- Delivered a machine learning solution that automates identification and flagging of NSFW content, enabling platforms to implement swift actions like takedowns or age-restrictions, thereby enhancing platform safety and content moderation efficiency with an evaluation accuracy of 92.29%.

Medical-Image-Classifier-Model — Dec 2024 – Feb 2025
Deep Learning Project — *Python, Flask, NLTK, Hugging Face*
- Improved a Convolutional Neural Network (CNN) model using TensorFlow and Keras for medical image classification, accurately categorizing X-ray, MRI, and CT scans with training and validation accuracy of 100.00%.
- Successfully trained the CNN model from scratch on a custom medical image dataset.
- Designed to enhance medical imaging workflows by automating dataset organization, routing images to specialists, and serving as a crucial pre-processing step for advanced medical analysis.

EXPERIENCE

Conversational AI Designer — May 2025 – Jul 2025
IBM — *Remote*
- Spearheaded the end-to-end creation of a specialized conversational AI chatbot for banking inquiries, utilizing IBM Watson Assistant. More than 5 actions were defined to guide users through the banking process effectively.
- Designed and optimized conversational flows and actions to ensure seamless user interactions for common banking queries, including account creation, balance checks, and transaction history.
- Successfully delivered an intuitive and efficient AI solution leveraging the power of IBM Watson Assistant that significantly enhanced customer service capabilities and improved user experience by 60%.

Machine Learning Engineer — Sep 2024 – Jan 2025
LearnFlu Pvt Ltd — *Remote*
- Spearheaded an Iranian Customer Churn Prediction project, culminating in the development and training of a Neural Network model that achieved 97.00% training accuracy and 95.08% validation accuracy.
- Managed a complete machine learning pipeline, from detailed data preprocessing and exploratory data analysis (EDA) to model training, which boosted the overall accuracy by roughly 18% and gained an evaluation accuracy of 95.00%.
- This experience honed my technical skills and provided valuable exposure to real-world machine learning applications within business analytics.

RESEARCH WORK

- EEG Signal Analysis for Seizure and Non-Seizure Classification with Integration of LIME and SHAP for Better Interpretability of the Model
  Published: https://www.jetir.org/papers/JETIR2507378.pdf

CERTIFICATIONS

- Data Analytics Job Simulation by Deloitte Australia
- Azure Fundamentals : Microsoft DP 900
- Gen AI using IBM WatsonX
- Cloud Computing
- Applied Machine Learning Using Python