



ALBIN JEGUS. S

AI Engineer/Full stack Developer

Professional AI Engineer and Full Stack Developer with 4+ years of expertise in machine learning, deep learning, and web development. Specialized in developing generative AI models and deploying scalable cloud solutions. Strong background in Python programming with MySQL.

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Address: Sholinganallur, Chennai, India

EXPERIENCE:

➤ Senior software developer:

Zhilon Solutions India Pvt. Ltd - Karungal | August 2023 - Present.

- Architected and delivered full-stack enterprise applications with optimized database design and RESTful APIs
- Implemented secure Azure cloud solutions utilizing Blob Storage and Active Directory authentication
- Developed cross-platform mobile applications using React Native
- Led development of multiple e-commerce, fitness, and educational management platforms
- Successfully implemented real-time face recognition system using YOLO achieving 95% accuracy.
- Created comprehensive technical architecture documentation and system flow diagrams

➤ Software Engineer A3:

Partnersoft Technology - Chennai | October 2022 - July 2023

- Experience in developing project from scratch using agile method.
- Utilized Gliffy for creating detailed system architecture and flow diagrams
- Spearheaded Virtual Try-On project implementing AR technology for virtual clothing simulation
- Developed intelligent chatbot system with advanced NLP capabilities.
- Implemented OCR solution with custom NLP processing for document digitization.
- Designed scalable architecture for handling high-resolution images and audio processing

➤ Python Programmer:

Mentor Thesis - Marthandam | November 2021 - October 2022

- Developed deep learning model for breast cancer detection using MRI scans (98% accuracy)
- Created human action recognition system with automated subtitle generation
- Implemented serverless architecture using AWS Lambda for ML model deployment
- Built license plate detection system with real-time processing capabilities
- Developed face authentication system using Hierarchical Attentional Model

➤ Software Technical Trainee:

IBM (Adroit Technologies) - Coimbatore | Sept 2020 - Oct 2021

- Developed ML models for retail purchase prediction using TensorFlow
- Performed advanced data analysis on customer behavior patterns
- Conducted corporate training sessions in AI, Data Science, and Big Data

➤ Embedded Trainer:

Xplore IT Corp - Coimbatore | January 2020 - September 2020

- Led technical training programs for embedded systems
- Developed IoT-based LOOM data project using PIC controller

➤ Assistant Professor: - | April 2014 - December 2019

Park College of Engineering and Technology- Coimbatore

SKILLS:

Programming Languages:

- Python, C, C++, JavaScript, Embedded C, Matlab
- HTML5, CSS3

Web Technologies:

- Frontend: React.js
- Mobile: React Native
- Backend: Django, Flask
- Message Brokers: Kafka, RabbitMQ, Artemis MQ

Databases:

- MySQL
- MongoDB

Cloud & DevOps:

- Azure Cloud Services
- Docker Containerization
- Git Version Control
- Jenkins CI/CD
- Python Anywhere Deployment

AI/ML Technologies:

- Deep Learning: TensorFlow, PyTorch, Keras
- Computer Vision: YOLO, OpenCV
- NLP: Transformers, BERT
- Neural Networks: CNN, GAN, LSTM, RNN
- Advanced Models: Capsule Networks, Attention Models

Data Analysis:

- Power BI
- Pandas
- Matplotlib
- Seaborn
- PySpark

Embedded Systems:

- 8051
- PIC
- ARM
- Raspberry Pi
- IoT Implementation

EDUCATION:

M.E-Communication system - PET engineering college

B.E-ECE - VINS Christian college of engineering.

RESEARCH & INNOVATIONS:

➤ **Advanced AI Models Implemented:**

Capsule Triple GAN, Hierarchical Attention NN, Tree CNN, DeTraC deep CNN, Capsule Super Resolution GAN, Automatic Graph NN, Enhanced Capsule GAN, Recalling Enhanced RNN, Self-Attenuation Model.

➤ **Optimization Algorithms:**

Rat Swarm, Red Fox, Nomadic People, Tunicate Swarm

EXTRA ACTIVITIES:

- ### ➤ Technical Training Specialist

DECLARATION:

I hereby declare that the information provided above is true and accurate to the best of my knowledge. I understand that any wilful dishonesty may render for refusal of this application or immediate termination of employment.