

ALBY M BIJU

AI/ML ENGINEER

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PROFILE

Motivated MCA student specializing in Artificial Intelligence and Machine Learning with hands-on experience in developing intelligent applications and full-stack solutions. Proficient in ML model design, data preprocessing, model evaluation, and deployment. Eager to contribute to UST's AI/ML Engineering team by building scalable, data-driven solutions that leverage modern AI frameworks and cloud platforms.

TECHNICAL PROFICIENCY

Programming Languages : **Python, Java, C**

AI/ML Tools & Libraries : **NumPy, Pandas, Scikit-learn, Matplotlib, TensorFlow, Google Colab**

Development Tools : **Jupyter Notebook, GitHub, AWS, GCP**

Web Technologies : **HTML, CSS, JavaScript, React**

Databases : **MySQL, MongoDB**

EDUCATIONAL QUALIFICATION

Master of Computer Applications | MCA

Amal Jyothi College of Engineering, Kanjirappally

Bachelor of Computer Applications | BCA

St. George College Aruvithura, Erattupetta

PROJECT EXPERIENCE

SmartJewel - Jewelry E-commerce Platform | PG Project

Developed an intelligent e-commerce platform using Flask and React with real-time gold price prediction, dynamic pricing algorithms, and a machine learning-based recommendation system. Integrated Razorpay API for secure transactions and MongoDB for scalable storage..

AI-Based Vehicle Speed Detection Using Camera | AI Project

Built a computer vision system to detect and calculate vehicle speed from live camera footage using OpenCV and object tracking algorithms. Applied frame differencing and contour detection to estimate motion and trigger alerts for overspeeding. Strengthened practical knowledge of AI-based video analytics, image processing, and Python-based model implementation.

NeuroWell – AI-Powered Mental Health Risk Detector | AI Project

Implemented a machine learning model (KNN, Random Forest) to detect early signs of mental health risks using behavioral data. Built a Flask backend with React dashboard for user insights and visualization.

WORK EXPERIENCE

Wahy Lab Solutions | Cyber Security Intern | Kochi

Collaborated on an e-learning application using Python and Android Studio. Developed interactive user interfaces and assisted in backend API integration and testing.

Riss Technologies | Software Development Intern | Kochi

Conducted vulnerability assessments and penetration testing on internal systems. Supported risk analysis documentation, improving understanding of AI-driven security solutions.

CERTIFICATIONS

NPTel Certification: **Human Computer Interaction, Cloud Computing**

Workshops: **Cybersecurity, Google Colab (ML), Microservices, Microsoft Azure**

Hackathon: **NASA Space Apps Challenge**

LANGUAGES

English | Malayalam | Tamil