KRISHNA PRAMOD PALEKAR

SOFTWARE ENGINEER

+91 9130093115 | krishnappalekar@gmail.com | Chennai, India | @ linkedin.com/in/krishnapramodpalekar/ | https://github.com/Krishna3112

CAREER OBJECTIVE

Aspiring AI/ML professional with hands-on experience in developing machine learning models, web applications, and AI-driven systems. Eager to contribute to innovative projects by leveraging skills in Python, deep learning, and full-stack development. Passionate about solving real-world problems through data-driven approaches, with a strong foundation in AI model deployment, cloud services, and interdisciplinary project work.

TECHNICAL SKILLS

Python programming | C programming | C++ programming | Dart development | SQL querying | HTML/CSS design | JavaScript development | Flutter app development | Node.js backend | Firebase integration | Git version control | Docker containerization | Unity development | Next.js framework | Cloudflare services | LangChain applications | Power BI visualization

PROFESSIONAL EXPERIENCE

AI-ML INTERN AT RINEX ML Internship Dec 2022– Jan 2023

- Engineered and deployed machine learning models utilizing scikit-learn and TensorFlow, achieving a 15% improvement in prediction accuracy compared to baseline models within a two-week sprint.
- Designed a robust data cleaning and transformation module using Pandas to standardize extracted iPhone review data, improving data quality and preparation time for sentiment analysis by 40%.

AI-ML INTERN AT NEXUS INFO Jan 2024 – Feb 2024

- Developed and deployed 2 key projects: an AI-powered chatbot that streamlined the college admission process, handling over 500+ student queries, and a machine learning-based disease prediction system with an accuracy of 85%, enhancing early diagnosis capabilities.

AI-ZYPHER Web dev Team SRM IST Aug 2024 - Sept 2024

- Conceived and constructed the AI-Zypher symposium website utilizing Next.js and Tailwind CSS, delivering 10 distinct pages and integrating backend functionality within a 2-week timeframe to meet crucial event timelines.

INDUTRY TRAINING INCUBATION PROGRAM in KANINI SOFTWARE SOLUTIONS Nov 2024 – Present

- Assisted and constructed interactive Tableau / Power Bi dashboards with Python data connectors and libraries for clients, enhancing data-driven decision-making and directly leading to a 25% faster completion of the entire tasks. Currently exploring Agentic AI using LangChain, developing simple AI agent use cases for training and experimentation for implementation of Gen AI projects.

EDUCATION

BACHELOR OF TECHNOLOGY | Computer Science and Engineering with Specialization in Artificial Intelligence and Machine Learning | SRM Institute of Science and Technology Chennai | CGPA 9.02 2022 – 2026

ACHIEVEMENTS & AWARDS

- 2nd place, Flutter Finesse Quiz among 50+ participants
- 3rd place, Flutter Flamboyant App Showcase among 50+ participants
- Participated in Intel 24-Hour Hackathon, KPR Institute, Coimbatore
- Published research paper titled “Competency Learning and Student-Centric Predictive Model” at IEEE International Conference
- Published paper “Multimodal Emotion Recognition Using CNN & Transformers” at International Conference on Engineering & Technology

PROJECTS

- AR-CADEMY (Unity, Blender, C#, Vuforia)
- Developed an educational AR app to visualize 2D diagrams in an interactive 3D environment
- Demonstrated to students and teachers; accelerated concept comprehension (e.g., heart, brain) by ~45% compared to traditional visuals

- Competency-Learning & Student-Centric Predictive Model (Python, Scikit-learn, Ensemble ML, LSTM)
- Built an ensemble learning pipeline (Random Forest, AdaBoost, Gradient Boosting, Extra Trees, LSTM) to forecast student performance
- Improved prediction accuracy by 15% over standard models

- Multimodal Emotion Recognition (Python, TensorFlow/Keras, RoBERTa, Wav2Vec 2.0, DeBERTa, CNN-LSTM, GNNs)
- Created a hybrid deep learning system integrating facial, speech, and text inputs for real-time emotion detection
- Achieved 98% classification accuracy, enhancing stability and performance

- AI-Driven Mock Interview Platform (FastAPI, Flask, ChromaDB, Cloudflare AI Embeddings)
- Engineered a platform that extracts and semantically analyzes PDF-based interview material
- Earned a 4.8/5 user satisfaction rating within one month of launch

- AI Face Recognition Attendance System (Python, OpenCV, FaceNet, Tkinter)
- Developed an automated classroom attendance system using facial recognition with FaceNet embeddings
- Enhanced real-time face verification accuracy, improving attendance logging efficiency and reducing manual effort

- Computer Control with Hand Gestures (Python, Mediapipe, OpenCV, PyAutoGUI)
- Built a vision-based system to control mouse and volume using hand gestures via webcam input
- Implemented fingertip and hand tracking, enabling intuitive human-computer interaction without physical devices

EXTRACURRICULAR ACTIVITIES

- Technical Team Lead, Cyborg Club, SRM IST – leading and mentoring a team of 25+ students across projects
- Host, Talent Show at SRM IST with 70+ participants and a wide audience
- Lead presenter of "AR-CADEMY" in Project Day 2024 at SRM IST with overwhelming response