

ARIN BALYAN

+91-9518108395 | arinbalyan19@gmail.com | linkedin.com/in/arinpalyan | github.com/arinpalyan | codolio.com

EXPERIENCE

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| BrilliED Full-Stack AI Engineer <i>FastAPI, Python, Vue.js, PostgreSQL, Docker, LangChain, CI/CD</i> | Nov 2025 – Present Remote |
| • Architected production full-stack platform (brillied.in) serving 400+ paid users and 2,000+ daily visitors across 5+ countries (USA, Canada, UAE, India, Middle East) with 99.8% uptime. • Built LLMs and RAG system using LangChain generating 500+ User docs every week with 92% accuracy, reducing content creation time by 85% through intelligent automation workflows. • Optimized PostgreSQL queries and implemented Redis caching, achieving <900ms page load time on slow 4G and improving API response times from 800ms to 180ms (77% reduction). • Developed admin dashboard with real-time KPIs tracking user metrics, revenue analytics, and system health; established CI/CD pipeline with GitHub Actions achieving 95% test coverage. | |

EDUCATION

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| Bachelor of Technology Computer Science (AI & ML Specialization) <i>Vellore Institute of Technology</i> | 2022 – 2026 CGPA: 8.37/10 |
| Higher Secondary Education (Class 12) CBSE Board <i>ML Sr. Sec. School, Narela, Delhi</i> | 2022 CGPA: 9.60/10 |

PROJECTS

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| EmotionML Real-Time Emotion Recognition Platform <i>PyTorch, FastAPI, React.js, Docker, Model Optimization</i> | Jul 2025 – Aug 2025 Link |
| • Trained 9 CNN architectures on 35,000+ images achieving 98.99% accuracy on CK+48 dataset, outperforming baseline models by 12% through systematic hyperparameter tuning and data augmentation. • Optimized MobileNetV2 using quantization and pruning, reducing model size by 60% (23MB to 9MB) and inference latency by 40% (250ms to 150ms), enabling deployment on edge devices with 512MB RAM. • Built production FastAPI backend with GPU acceleration processing 1,000+ images/hour, scaling from 10 to 30 req/sec and supporting 50+ concurrent users with <200ms p95 latency. • Designed responsive React.js interface with real-time predictions achieving 95% user satisfaction from 30+ beta testers and reducing task completion time by 70% through intuitive UX design. | |

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| AgroAid ML-Powered Agricultural Assistant <i>Python, XGBoost, Flask, Docker, PostgreSQL</i> | Nov 2024 – Feb 2025 Link |
| • Developed ensemble model combining Random Forest, XGBoost, and Linear Regression with stacking meta-learner achieving 89% accuracy on crop yield prediction using 3 government agricultural datasets (50,000+ records). • Engineered feature pipeline integrating soil quality, weather patterns, and historical yield data from government sources, improving model performance by 15% through domain-specific feature engineering. • Deployed Flask REST API serving 200+ requests/day with 96.5% uptime and <500ms response time; implemented PostgreSQL database with query optimization reducing data retrieval time by 60%. • Built multilingual recommendation engine supporting 5 languages (Hindi, English, Tamil, Telugu, Kannada) serving 500+ daily queries in Agile environment with 90%+ code review approval rate. | |

TECHNICAL SKILLS

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| Programming: Python, C++, SQL, JavaScript | Backend: FastAPI, Flask, REST APIs |
| ML/DL Frameworks: PyTorch, TensorFlow, Keras, Scikit-Learn, XGBoost | LLM/AI: RAG, LangChain, LangChain |
| Deep Learning: CNNs, LSTMs, Transfer Learning, Model Optimization | Databases: PostgreSQL, MySQL, Redis |
| MLOps & DevOps: Docker, CI/CD, Model Deployment | Cloud/Tools: AWS, Git, GitHub Actions |
| Data Processing: NumPy, Pandas, Feature Engineering | |

COURSES

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| Applied Machine Learning in Python - University of Michigan, Coursera | Score: 94% |
| Ethnus MERN Full-stack Developer Certification - Ethnus | Score: 90% |

ACHIEVEMENTS & LEADERSHIP

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| • Secured Top 10 rank at IIM Nagpur's Arthneeti 4.0 case competition among 200+ teams, leading comprehensive market analysis and strategic business planning presentation. |
| • Achieved Top 25 global ranking at Zelestra x AWS Hackathon among 500+ participants, building production-ready ML solution under 48-hour time constraint. |
| • Active open-source contributor through GSSoC with 50+ merged PRs across multiple repositories, collaborating with developers on Python ML libraries and web frameworks. |