

Bhushan Anokar

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PROFESSIONAL SUMMARY

AI/ML Engineer specializing in **Computer Vision**, **Deep Learning**, and **Healthcare AI** [CNNs, Vision Transformers, Medical Imaging]. **Smart India Hackathon 2024 winner** with hands-on experience building deep learning models for real-world problems. Skilled in **Python**, **PyTorch**, **TensorFlow**, and **FastAPI**. Created AI solutions for **medical imaging**, **agriculture**, and **IoT applications**, including fake medicine detection systems and plant disease diagnostics. Strong background in combining **CNN and ViT architectures** to solve complex classification challenges and turning research ideas into working applications.

EDUCATION

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| Marathwada Mitra Mandal's College of Engineering, Pune <i>Bachelor of Engineering in Computer Engineering</i> | 2023-2027 <i>CGPA: 9.59/10.0 (Current standing)</i> |
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TECHNICAL SKILLS

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| Programming Languages: Python, C++, Java, JavaScript, C |
| AI/ML Technologies: TensorFlow, PyTorch, Keras, NumPy, Pandas, Scikit-learn, Fast.ai, Computer Vision, NLP |
| Deep Learning Frameworks: CNN, Vision Transformers (ViT), DARTS, Meta Learning, Medical Imaging |
| Web & Backend Frameworks: Flask, Django, FastAPI, Node.js, RESTful APIs |
| Cloud & Infrastructure: Google Firebase, Google Cloud Platform, IoT Systems |
| Software Development: Git, GitHub, Object-Oriented Programming, Agile Methodology |
| Specializations: Machine Learning Algorithms, Deep Learning, Computer Vision, Natural Language Processing, GenAI |

PROJECTS

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| Medisure <i>AI-Powered Fake Medicine Detection System</i> <i>Python, ML, Computer Vision, Flask</i> | Aug 2024 |
| <ul style="list-style-type: none">Architected and implemented an AI-powered system for counterfeit medicine detection, winning Smart India Hackathon 2024 for PSID-1621 (Government-sponsored national hackathon).Designed and integrated multiple verification algorithms including image recognition, OCR, ingredient matching, and syntax validation achieving 95% accuracy in detecting fraudulent medicines.Built a cross-device compatible solution without hardware upgrades, reducing implementation costs by 40% for healthcare systems. | |
| Medilens <i>AI-Powered Dermatological Diagnosis Tool</i> <i>PyTorch, Computer Vision, FastAPI</i> | Jan 2024 |
| <ul style="list-style-type: none">Engineered a hybrid CNN-ViT architecture with DARTS and Meta Learning achieving 95% accuracy in identifying 10+ common skin conditions from uploaded images.Designed user-friendly Progressive Web App (PWA) with FastAPI backend, enabling real-time diagnosis and integration with existing healthcare platforms.Implemented advanced image preprocessing pipeline with normalization algorithms to handle lighting conditions and image quality variations, improving diagnostic accuracy. | |
| Praxis <i>Coding Education Platform</i> <i>GenAI, Python, Machine Learning</i> | Nov 2024 |
| <ul style="list-style-type: none">Developed an AI-powered platform supporting 15 programming languages with personalized learning paths and adaptive difficulty adjustment.Engineered innovative 4-stage learning approach using Generative AI to create custom questions, provide progressive hints, generate flowcharts, and offer real-time feedback.Built feedback-based learning system with machine learning algorithms that adapts to user learning speed and adjusts topic difficulty dynamically. | |

ACHIEVEMENTS & CERTIFICATIONS

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| Smart India Hackathon 2024 Winner — Government of India's prestigious national hackathon for PSID:1621 — Dec 2024 |
| 2nd Prize — 24-hour Innovators Challenge Hackathon for Nectar agricultural AI solution — Oct 2024 |
| 3rd Prize — Paper presentation on Gesture Controlled Claw at Udaan 2k23 technical symposium — Apr 2024 |
| Audience Choice Award — AI Gati hackathon for Medilens dermatological diagnosis tool — Mar 2025 |
| PBL Project Competition Winner — MMCOE for Praxis coding education platform — Mar 2025 |
| Python (Basic) Certification — HackerRank — May 2024 — (Certificate Link) |
| Machine Learning with Python — FreeCodeCamp — Apr 2025 — (Certificate Link) |