

Vaibhav Shiroorkar

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EDUCATION

Bachelor of Technology in Electronics and Computer Engineering <i>K. J. Somaiya College of Engineering</i> CGPA: 8.97 / 10.0 (<i>Lateral Entry</i>)	Jul. 2024 – May 2027 <i>Mumbai, IN</i>
Diploma in Electronics and Telecommunication Engineering <i>Vidyalankar Polytechnic</i> Percentage: 85.06%	Aug. 2021 – May 2024 <i>Mumbai, IN</i>

EXPERIENCE

Intern – Maintenance Engineer <i>Perfect Medical Solutions (Philips Authorized Service Center)</i> - Visited hospitals across Mumbai for on-site repair of surgical tools and ventilators alongside senior engineers - Repair and maintenance of Philips oxygen concentrators and portable ventilators at the service center - Identified hardware faults in equipment and assisted senior engineers in troubleshooting - Carried out calibration and quality checks on repaired devices before clearance for use - Maintained technical repair documentation to support accurate service records	May 2023 – Jul. 2023 <i>Malad, Mumbai, IN</i>
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PROJECTS

Disease Prediction <i>Python, FastAPI, Scikit-learn</i> - Built a web app where users select symptoms and get a ranked list of likely conditions with confidence scores - Random Forest and Gradient Boosting ensembles trained for disease and symptom classification - Added risk assessment forms for diabetes, heart disease, and stroke - Added weather-based outbreak predictor for mosquito-borne diseases - Deployed FastAPI backend on Render and React frontend on Vercel, with Supabase used for logging predictions	Aug. 2023 – Feb. 2024
Deepfake Detection <i>FastAPI, PyTorch, HuggingFace, LLM</i> - Built a tool that checks whether images, videos, audio clips, or text are AI-generated, returning a suspicion score - Combined many pretrained HuggingFace classifiers with calibration logic to reduce false positives on real content - Added forensic image checks (noise, metadata, pixel-level analysis) and per-frame video analysis - Deployed backend on Hugging Face Spaces via Docker and runs an LLM cross-check via Groq	Dec. 2025 – Present

SKILLS

Languages: Python, C++
Backend: FastAPI, Node.js, PostgreSQL, Redis
Libraries: PyTorch, LangChain, HuggingFace, Scikit-learn, Pandas, NumPy
Tools: AWS, Docker, MLflow, Git
Frontend: JavaScript, HTML, CSS