DHIRAJ DAHALE

FULL STACK DEVELOPER & AI/ML ENTHUSIAST
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TECHNICAL SKILLS

- Programming Languages: C, C++, Java, Python, JavaScript, TypeScript
- Web Development: HTML5, CSS3, React.js, Tailwind CSS, Node.js, Next.js, REST APIs
- AI Tools: Claude Code, Cursor, GitHub Copilot, OpenAI Codex
- AI/ML & Data Science: Python, TensorFlow, PyTorch, OpenCV, NLTK, Pandas, NumPy
- Cloud & DevOps: Firebase, AWS (S3, Lambda), Google Cloud Platform (GCP), GitHub Actions, Docker (Basic)

EXPERIENCE

Vice President – Entrepreneurship Cell, AVCOE Club by IIT Bombay   [Aug 2024 – Feb 2025]
- Led the Entrepreneurship Cell under the National Entrepreneurship Challenge by E-Cell, IIT Bombay.
- Organized startup workshops, speaker sessions, and panel discussions attended by 300+ students.
- Coordinated funding pitches and mentorship programs in collaboration with external partners.

Founding Member – VibeHack Club, AVCOE   [Feb 2025 – Present]
- Founded the VibeHack Club to promote hackathon culture and peer learning on campus.
- Mentored over 30 student teams; 5 selected for the Smart India Hackathon (SIH), and 2 participated in international hackathons.
- Conducted monthly coding sprints, technical workshops, and team-building sessions.

Marketing Intern – Corizo   [Oct 2024 – Nov 2024]
- Supported digital marketing campaigns and helped drive outreach strategies.
- Contributed to a 25% increase in engagement on social media and improved email campaign performance through A/B testing.

PROJECTS

KrishiSense – AI-Powered Farm-Level Yield Estimation & Insurance Settlement Platform - SIH2025 🎙️github
(Tech Stack: Next.js, TypeScript, Python, FastAPI, PyTorch, Google Earth Engine, Firebase, Polygon Blockchain)
- Advanced YES-TECH PMFBY with farm-level yield estimation using high-resolution satellite data and ML ($R^2 \geq 0.85$).
- Built an end-to-end AI pipeline from prediction to insurance payout, integrating Meta SAM for farm segmentation, 7/12 land-record OCR, blockchain-secured claim settlement, and AI-powered IVR for farmers and officers.
- Developed farmer and officer dashboards with NDVI heatmaps and yield analytics for faster decisions.

Bhujal.IO – AI-Powered Groundwater Monitoring System (in collaboration with Ministry of Jal Shakti) - SIH2024 🎙️github
(Tech Stack: Python, FastAPI, ML, Firebase, Google Maps API)
- Built a real-time groundwater level predictor using rainfall and soil data with 85% accuracy.
- Designed a geospatial dashboard to support water conservation efforts in 50+ rural panchayats.
- Developed in collaboration with the Ministry of Jal Shakti to aid grassroots decision-making.

AgriConnect – AI Agriculture Companion 🎙️github
(Tech Stack: React Native (Expo), Firebase, FastAPI, GPT-4 API)
- AI-powered advisory system offering crop care tips, market trends, and scheme info in regional languages.
- Pilot-tested with 200+ farmers; achieved 92% satisfaction rate in user feedback.

SmartSurveil – AI-Based Campus Security System 🎙️github
(Tech Stack: OpenCV, YOLOv8, Flask, Firebase, SMTP, AWS S3)
- Implemented real-time people counting and attire detection via CCTV footage.
- Logged over 10,000 entries/exits and sent 100+ security alerts based on thresholds and violations.

AWARDS

- Smart India Hackathon 2025 Winner (KrishiSense) – ₹1,50,000 Prize Money)
  (IJIRMPS - Research Paper Published: From Satellite to Soil)
- Smart India Hackathon 2024 Winner (Bhujal.IO) – ₹1,00,000 Prize Money)
- IIT Madras Hackathon 2024 Best Use of AI (AgriConnect)
- AVCOE IoT Competition First Prize (SmartSurveil)
- SPPU IEI Best Student Innovation Award (SmartSurveil)

LANGUAGES

•English   •Hindi   •Marathi   •Japanese (JLPT N5)

linkedin   github