Nikhil Khedlekar

Generative AI & Agentic Systems Specialist, AI Workflow Orchestration, Content & Technology Strategist



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Pune, MH, India

Indian

27th August 1995

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SPOKEN LANGUAGES

English
B2 Working Proficiency

Marathi
C2 Working Proficiency

Hindi
C2 Working Proficiency

EDUCATION

Diploma In Computer Technology
K.K.Wagh Polytechnic
June 2011 – June 2014
Nashik, MH, India

S.S.C. Education
Fravashi Academy
June 2011 | Nashik, MH, India

PROFILE SUMMARY

AI and technology professional with nearly a decade of experience across digital systems, content operations, and technology-driven workflows.

Experienced in Generative AI Evaluation, Prompt Engineering, and designing Agentic Workflows that combine AI tools, business rules, and structured execution processes.

Expertise in designing and orchestrating AI-powered systems using Claude Code, integrating research, data analysis, content generation, external tools, and publishing workflows with human oversight.

Also experienced in Python-based automation through AI-assisted development, script modification, debugging, browser automation, and applied machine learning workflows.

Combines technical understanding with strong business and editorial strategy skills to translate complex requirements into practical, scalable AI-driven solutions.

PROFESSIONAL EXPERIENCE

AI Quality Analyst
Project Gemstones, Turing (Contract)
September 2026 – Present | Pune, MH, IND

- Evaluate Gemini AI model outputs across accuracy, relevance, reasoning quality, instruction adherence, grounding, contextual understanding, and overall response quality.
- Conduct side-by-side (SxS) and multi-turn evaluations of model variants to identify differences in response quality, consistency, contextual reasoning, and task completion.
- Test AI personalization and connected-service integrations, validating how models retrieve, interpret, and apply contextual information from conversation history and connected Google services.
- Investigate and document model failures, evaluation bugs, inconsistencies, and edge cases, analyzing failure patterns and providing evidence-based rationales for quality judgments.
- Perform structured AI quality testing and rubric-based evaluation, identifying factual errors, reasoning gaps, instruction-following failures, contextual mismatches, hallucinations, and inappropriate use or omission of available context.
- Design and execute test prompts and conversational scenarios to evaluate model behavior across different task types, user contexts, and interaction flows.
- Apply human-in-the-loop (HITL) evaluation methodologies to assess model reliability, consistency, contextual grounding, and user-facing response quality.
- Provide clear, structured evaluation feedback and root-cause observations to support model improvement, benchmark quality, and refinement of AI behavior.

AI Evaluation Specialist
Project Mareen, Mercor - (Contract)
March 2026 – August 2026 | Pune, MH, India

- Evaluated and optimized AI-generated content across reasoning, accuracy, tone, and structural quality.
- Designed and refined prompts to improve consistency and performance of long-form outputs.
- Contributed to scalable human-in-the-loop review systems for editorial and knowledge-based tasks.
- Worked within Mercor-powered AI workflows to benchmark content quality and identify failure patterns.

CORE EXPERTISE & TECH

Technical Skills

Generative AI & Agentic Systems: Generative AI, Claude Code, Prompt Engineering, Agentic Workflow Design, AI Tool Orchestration, Context and Instruction Design, Human-in-the-Loop Evaluation, AI Output Evaluation.

Programming & Automation (AI-Assisted): Python (Code Comprehension, Script Modification and Debugging), Playwright, Browser Automation.

APIs & Integrations: WordPress REST API, Model Context Protocol (MCP) Integrations, Google Search Console, Google Ads Keyword Planner, Google Trends.

Databases & Backend: Firebase Authentication, Firestore, MySQL, SQLite, XML.

Cloud, Deployment & Infrastructure: Oracle Cloud Infrastructure (OCI), Linux, Vercel, Netlify, Windows Server.

Development & Collaboration Tools: Git, GitHub, Figma, ClickUp, WordPress.

CERTIFICATES

Introduction To Agents — *Mercor - Oct 2026*

AI Fluent Marketing Professional — Calyptus - April 2026

The Fundamentals of Digital Marketing — *Cert ID: RAB 6X5 CXY - Google - June 2023 -*

Google UX Design Specialization — *Google - Feb 2023*

SEO fundamentals exam — *Semrush Academy - May 2019*

Certified Course On Digital Marketing — *MSME Technology | Development Centre - Aug 2018*

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Content Writer (Strategic & AI-Led Content Operations)

TechDogs Marketing Pvt. Ltd.

January 2024 – January 2026 | Pune, India

- Published ~500+ AI-assisted articles annually across enterprise and emerging tech domains, improving publishing scalability and editorial consistency, without a proportional increase in operational cost.
- Reduced news publishing turnaround time from 2-4 hours to ~1 hour by implementing structured Generative AI workflows and custom GPT integrations.
- Re-engineered long-form publishing pipeline from a 30-day delay cycle to a 2-day execution framework, accelerating go-to-market velocity.
- Structured pillar-cluster content architecture aligned with search-intent hierarchies, contributing to ~3x organic traffic growth in 6 months, also increasing indexed pages and keyword visibility.
- Integrated industry data, market statistics and analyst insights into long-form and thought leadership pieces to strengthen authority and research depth.
- Built and scaled an AI-assisted short-form social media content framework across multi-platform formats, growing follower base from 500 to 8K in 6 months (~60% growth per month) on Instagram and improving engagement by ~40% across all channels.
- Designed and deployed a branded URL-shortening infrastructure prototype using Firebase, Firestore and Netlify, implementing authentication, duplicate URL validation and internal link mapping logic, exploring internal tooling efficiency and SaaS extensibility potential.
- Implemented ClickUp across a 30-member team, introducing standardized workflow tracking and operational transparency.

Technical Content Writer

CredenTek Software & Consultancy Pvt. Ltd.

March 2022 – August 2023 | Pune, MH, India

- Led WordPress-based website revamp using structured UI/UX and SEO architecture, improving search visibility and digital positioning.
- Produced technical documentation and product manuals, simplifying complex solutions for end-user adoption.
- Designed marketing collateral and product communication assets across print media, web, social and video platforms.
- Managed recurring blog publishing and social optimization to strengthen brand presence and organic acquisition.

IT Project Coordinator

GrootUp Media & Solutions LLC

March 2021 – March 2022 | Wilmington, DE, USA

- Coordinated frontend and CMS development for client products across WordPress and Firebase-based systems.
- Designed wireframes and UI prototypes in Figma, translating client requirements into structured digital products.
- Managed on-page and off-page SEO initiatives achieving competitive keyword rankings across client portfolios.
- Monitored performance using analytics and SEO tools to optimize search visibility and traffic acquisition

Technology Freelancer

Self-Employed

June 2017 – March 2021 | Nashik, MH, India

- Designed, developed and optimized WordPress-based client websites across service industries.
- Implemented foundational on-page SEO strategies achieving competitive LSI and generic keyword rankings.
- Delivered UI/UX prototypes, frontend development and performance maintenance for international clients.

PUBLICATIONS

Everyone Wants You To Use AI (Until You Actually Do!)
AI Ethics
June 2026

- Authored an opinion piece exploring the gap between organizational enthusiasm for AI-driven productivity and the scrutiny employees face when using AI in their own work.

Examines workplace attitudes toward AI-assisted assignments, automation, productivity, and the evolving boundaries of responsible AI use.

Why SEO Matters For Local Businesses!
Nikhil Khedlekar
April 2019

- Authored an article explaining the importance of local SEO for businesses, covering how search visibility, location-based discovery, and organic search strategies can help businesses connect with potential customers.

- Future ACE - https://www.future-ace.com
- Citrus-A-Peel Cleaning - https://www.citrusapeel.com
- Zen Generators - https://www.zengenerators.com
- ForShore Painting - https://www.forshorepainting.com

PROJECTS

Branded URL Shortener
Firebase-powered branded URL management system
November 2024 – November 2024

- Prototyped a branded URL-shortening application with Firebase Authentication and Firestore.
- Implemented user authentication, duplicate URL validation, and internal link mapping logic.
- Used Netlify for deployment and application hosting.

Watchtower
Automated web monitoring and notification system
August 2026 – August 2026

- Built and deployed a Python-based monitoring application on Oracle Cloud Infrastructure (OCI) Linux.
- Used Playwright to monitor web-based task availability and detect newly available surveys and Request IDs.
- Implemented session recovery, authentication checks, duplicate detection, browser restart handling, and email notifications through SMTP.
- Configured persistent execution using Linux systemd services, environment variables, and application logging.

Agentic AI Content Production System
AI-driven content production through agentic tool orchestration
August 2026 – Present

- Designed and orchestrated an agentic content production workflow using Claude Code, defining its content rules, editorial standards, business voice, and execution requirements.
- Enabled task-driven tool selection across web research, keyword analysis, content planning, image generation through Canva MCP, SEO validation via Google Trends, and internal/external linking.
- Integrated Google Search Console, Google Trends, and the WordPress REST API into the workflow.
- Configured the system to generate and prepare WordPress drafts, with human editorial review before publication.

Audio Analysis & Comparison Automation
Machine learning-based audio analysis and browser automation
November 2026 – November 2026

- Developed an AI-assisted audio analysis workflow using Python, Playwright, PyTorch, torchaudio, and SpeechBrain.
- Integrated ECAPA-TDNN speaker embeddings and cosine similarity to support speaker similarity analysis.
- Applied voice activity detection and acoustic features such as pitch to support audio comparisons.
- Automated browser-based task detection and structured audio assessment workflows.