MANGESH YADAV

AI Automation Engineer
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PROFESSIONAL SUMMARY

AI Automation Engineer and Data Analyst who designs and ships LLM-powered agents, RAG pipelines, and end-to-end automation systems, then turns raw data into dashboards teams actually use. Built an internal automation portal and analytics dashboards, an AI Receptionist that runs front-desk operations end-to-end, and Python automation workflows that eliminated repetitive manual work across production environments. B.E. in Computer Science (AI/ML specialization) with a strong command of Django/Flask and the full AI/ML lifecycle.

PROFESSIONAL EXPERIENCE

Jolly Clamps Pvt. Ltd. **Aug 2026 – Present**
Automation & Data Analyst

- Designed and built an internal automation portal that replaced manual, spreadsheet-driven workflows with a single fully automated system, eliminating repetitive daily processing work for the team.
- Owned the portal from requirements through deployment, giving the team a self-service system that removed the need for daily manual follow-up on core tasks.
- Converted raw operational data into interactive visual analytics dashboards, giving stakeholders real-time visibility into key metrics and enabling faster, data-driven decisions.

MCM BPO Pvt. Ltd. **Sept 2025 – Aug 2026**
AI Automation Engineer & Python Developer

- Designed and shipped an AI Receptionist that handles inbound caller inquiries end-to-end — integrating LLM, text-to-speech, and speech-to-text APIs into a custom web interface — delivering automated, round-the-clock front-desk coverage and freeing staff for higher-value work.
- Engineered end-to-end Python automation across core operational processes, cutting manual workflow time 30% and eliminating repetitive daily tasks for the operations team.
- Developed an AI-powered content and email engine that generates personalized, multi-platform social posts and bulk outreach campaigns, with built-in performance tracking to monitor engagement.
- Deployed and maintained production applications on Linux servers, monitoring uptime and resolving incidents to keep business-critical automation workflows running reliably.

PROJECTS

Social Media Content Generation Platform
Python, n8n, OpenAI API, REST APIs, Prompt Engineering

- Built a full-stack content generation platform on n8n automation workflows, letting users produce multi-platform posts and images from simple keyword prompts.
- Designed dynamic prompt-engineering pipelines and API orchestration to generate platform-optimized content for Instagram, LinkedIn, Twitter, and Facebook.

SalesHunter — Automated Lead Generation Tool
Python, Apify API, Apollo API, Selenium, SMTP

- Built an automated lead-generation tool that fetches and validates high-quality prospects through Apify and Apollo API integrations.
- Automated website form submissions and personalized email outreach with Selenium and SMTP, eliminating repetitive manual prospecting work.

Deepfake Detection System
Python, Flask, OpenCV, dlib, Deep Learning, CNN

- Built the Flask backend of a deepfake detection system using a pretrained CNN and cosine similarity for face verification across video frames.
- Engineered a modular pipeline for facial alignment, feature extraction, and frame-by-frame real-time video analysis using OpenCV and dlib.

LetsMeet — Real-Time Video Conferencing Platform
Django, Python, LiveKit SDK, JavaScript, HTML/CSS

- Built a full-stack video conferencing web app in Django with server-side token generation and room management.
- Integrated LiveKit WebRTC for real-time video/audio streaming, mic/camera controls, and end-to-end-encrypted passphrase handling.

TECHNICAL SKILLS

Languages & Frameworks: Python, HTML, CSS, JavaScript, SQL, Django, Flask, REST APIs, Bootstrap
AI Agents & LLMs: LLM Integration, RAG, Prompt Engineering, AI Agent Workflows, Vector Databases, n8n, Anthropic Claude
AI/ML & Data Science: NumPy, Pandas, Scikit-learn, OpenCV, CNN, NLP, Feature Engineering, Model Evaluation, Matplotlib, Seaborn
Automation & Scraping: Selenium, Apify, SMTP/Email Automation, Web Scraping
Databases & DevOps: MySQL, MongoDB, Git, GitHub, AWS, GCP, Linux

EDUCATION

B.E. in Computer Science & Engineering — AI/ML Specialization **2021 – 2025**
Theem College of Engineering, University of Mumbai
Relevant Coursework: Artificial Intelligence, Machine Learning, Data Analysis, Software Engineering, Operating Systems, Cloud Computing (AWS)

CERTIFICATIONS

- AWS Academy Graduate — Data Engineering.
- Accenture — Data Analytics & Visualization Job Simulation.
- 100 Days of Code: The Complete Python Pro Bootcamp (Angela Yu), Udemy.