DEVDATTA TALELE

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SUMMARY

- AI engineer with hands-on experience in LLM development, RAG architectures, & chatbot automation.
- Skilled in building scalable, real-world AI solutions for workflow automation, customer support, & data processing.
- Founder of HDGE3, a SaaS startup delivering LLM-powered automation platforms for complaint mgmt & CRM workflow
- Strong interest in LLM fine-tuning & cloud-based deployment, with a focus on efficiency, security, & innovation.

SKILLS

- **Languages**: Python, C++, JavaScript, HTML/CSS
- **Machine Learning & LLM:** RAG (Langchain, NVIDIA Embeddings), LLM Fine-tuning (LoRA, Unsloth), Dialogflow CX,Ollama
- **Computer Vision**: DeepLab v3+, Mask R-CNN, YOLO v9, TinyML
- **Backend & APIs:** Flask, RESTful Services, Local LLM Hosting, Git
- **Cloud/DevOps**: Docker, Azure, Digital Ocean, Cloudflare Tunneling, Shell Scripting
- **Security:** Secure Data Processing (GANs, Azure Confidential Cloud), OAuth

EXPERIENCE

Founder – HDGE3 Labs (hdge3.space) | Jan 2024 – Present

- Delivering AI-powered automation solutions with an **Agnetic AI workforce** that handles **CRM tools**.
- Offering CRM features such as surveys, series campaign builders, lead management, & customer support automation.
- Enabling **ticketing** with automated refunds, escalations, & resolution workflows, reducing manual intervention & improving turnaround times.
- Providing **plug-and-play integrations** with popular platforms such as HubSpot, Salesforce, Slack, & WhatsApp for seamless data synchronization & communication.
- Building **omnichannel AI solutions** that operate across websites, messaging apps, & email to deliver consistent, real-time customer support.
- Reduced manual workflow efforts by 70% through integration of RAG architectures & LoRA-optimized models.
- Managed end-to-end product development including deployment on Azure & Digital Ocean with Dockerized microservices
- Technologies: Langchain, Unsloth, Ollama, Docker.

Intern – Thingbits Electronics | Sep 2024 – Oct 2024

- Developed Thingbot, a context-aware chatbot integrated with Chatwoot & Dialogflow CX.
- Implemented RAG pipelines with NVIDIA AI Workbench through LoRA optimization.
- Automated e-commerce cart management & delivery quotation systems.
- Technologies: Langchain, NVIDIA Embeddings, Dialogflow CX, Unsloth.

PROJECTS

Krya.AI – LLM-Powered Desktop Automation | [GitHub](#)

- Built a system leveraging Gemini 2.0 Flash Experimental to automate desktop workflows via natural language prompts.
- Designed a feedback loop for error handling & code refinement, reducing manual intervention by 70%.
- Enabled dynamic code generation & execution for tasks like file management, data scraping, & API calls.
- Technologies: Gemini 2.0 Flash, Python, Langchain, Error Handling Pipelines.

JOB-filler Chrome Extension – Automated Job Application Tool | [Github](#)

- Developed a Chrome extension fills job applications on any website by extracting relevant data from resumes.
- Implemented resume parsing algorithms to extract key details & help autofill information
- Integrated & auto-apply the job application process by automatically submitting applications on supported platforms.
- Enabled dynamic field mapping to adapt to different website structures, ensuring compatibility across various job portals.

HepaScope: Liver Segmentation using DCNN | March 2024 | Duke-Havard Hackathon | [Github](#)

- Achieved 98% accuracy in liver & tumor segmentation on CT scans using Deep CNNs & transfer learning.
- Winner of the 2024 Joint Duke-Harvard International Hybrid Hackathon.
- Technologies: TensorFlow, DeepLab v3+, Medical Imaging Preprocessing.

CTR Model in Data Clean Room | Jul 2024 | UCLA Hackathon | [Github](#)

- Built a privacy-preserving CTR prediction system using GANs & Azure Confidential Cloud, ensuring zero data leakage.
- Enhanced synthetic data generation efficiency by 35% while maintaining GDPR compliance.
- Technologies: GANs, Azure Confidential Compute, OAuth2.

ACHIEVEMENTS

- Winner: Live-AI Global Harvard-Duke Hackathon (2024)
- 2nd Place: GES x UCLA Hackathon (2024)

PUBLICATIONS

- HepaScope: Densely Connected UNet for Liver & Tumor Segmentation
  Shortlisted – ICBCB 2025
- Enhancing Privacy in Digital Marketing: Data Clean Room for CTR Prediction
  Under Review – IEEE ET&A 2025

EDUCATION

University Of Mumbai | 2023–2027

- B.Tech in Electronics & Computer Science | SGPI: 8.28
- Relevant Coursework: Machine Learning, Computer Vision, Distributed Systems.