

# NABH PATODI

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**Generative AI / AI-ML / Backend Engineer / Software Development Engineer — B.Tech CSE, SRM IST (May 2026)**

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## SKILLS

- **Languages:** Python, Java, C/C++, JavaScript/TypeScript, R, SQL
  - **AI/ML:** TensorFlow, PyTorch, Keras, Scikit-Learn, OpenCV, LangChain, CrewAI
  - **Backend & Database:** FastAPI, Django, Flask, Postgres, MongoDB, MySQL, Firebase
  - **Infra & DevOps:** Docker, Git, Google Cloud Platform, Amazon Web Services, CI/CD, Kubernetes, Helm, CircleCI
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## EXPERIENCE

### Software Development & AI Engineer – Comoto Holdings

Jul 2025 – Present

- Built and deployed a microservice-based multi-agent platform using LangChain/LangGraph, leveraging PostgreSQL and LLMs from various providers, with <7s E2E latency.
- Designed a real-time RAG pipeline and custom data connectors to integrate multiple internal data sources, enabling agents to retrieve and reason over enterprise knowledge securely and reliably.
- Developed an analytics dashboard for observability with prompt and agent management, RBAC, Google SSO integration; and deployed the agents and dashboard across on-prem datacenter + GCP.

### R&D Intern – Samsung R&D Institute India (SRI-B), Bengaluru

Jan 2024 – Sept 2024

- Trained and evaluated classification models on sensor/health signals; compared against baselines and iterated on features & validation.
  - Prototyped secure IoT data flow for on-device readings → gateway → analytics; contributed to an MVP integrating ML-driven insights.
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## PROJECTS

### Research AI – FastAPI, React, Tailwind, Firebase, LangGraph/LangChain, OpenAI/Gemini

Repo: [github.com/nabhpatodi10/Research-AI](https://github.com/nabhpatodi10/Research-AI)

- Graph-based workflows for parallel search, scraping, and citation-grounded research document generation.
- Pluggable LLM providers, FastAPI backend with real-time RAG pipeline and multi-agent architecture.
- Top performer on DeepResearch Bench test; beats OpenAI, Gemini, Perplexity and other Deep Research services.

### Computer-Use Agent – Python, LangGraph, GUI-Actor, OmniParser, Tkinter

Repo: [github.com/nabhpatodi10/Computer-Use-Agent](https://github.com/nabhpatodi10/Computer-Use-Agent)

- Multimodal desktop AI agent that translates natural-language goals into a perception → action loop controlling mouse/keyboard.
- Dual backends (Microsoft GUI-Actor vision and OmniParser + LLM parsing) behind a compact LangGraph Agent.

### DigiBanker (Standard Chartered Hackathon 2025) – FastAPI, React, MongoDB, OpenCV, TensorFlow, Keras

Repo: [github.com/nabhpatodi10/DigiBanker](https://github.com/nabhpatodi10/DigiBanker)

- Agentic AI Branch Manager that assists KYC/loan workflows supporting multimodal inputs.
  - Developed document handling, basic eligibility checks, a customer facing AI agent and multiple ML models for loan classification; prototype reported >90% classification accuracy with ~10s typical E2E latency.
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## EDUCATION

### SRM Institute of Science and Technology, Kattankulathur – B.Tech, Computer Science & Engineering

Aug 2022 – May 2026 | **CGPA:** 8.92/10.0

### The Shishukunj International School, Indore

Class XII: 90.0% (2022) | Class X: 93.8% (2020)

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## PUBLICATION

- Nabh Patodi, Tanmay Agarwal, Madhumitha K, “**User Identification Based on Health Device Readings**”.  
Link: <https://ssrn.com/abstract=5833942>
- Nabh Patodi, Kushagra Saxena, Lokesh Jain, Shlok Balsara, Dr. Tyj Naga Malleswari “**Smart Security System with Voice Bot**”. *International Journal of Innovation in Engineering Research & Management*, 12(1), 54–60.  
Link: <https://journal.ijerm.co.in/index.php/ijerm/article/view/2633>