

Vinit Patil

+91 9619705113 | vinitonterminal@gmail.com | [linkedin.com/in/vinit-patil-a3384728a/](https://www.linkedin.com/in/vinit-patil-a3384728a/) | github.com/vinitpatil519

EDUCATION

Vellore Institute of Technology, Chennai Campus

Chennai, Tamil Nadu

Bachelor of Technology, Computer Science (specialization in AI and Robotics)

Aug 2023 – present

TECHNICAL SKILLS

Languages: Python, JavaScript, C/C++, Java, Bash, Solidity, SQL, SQLite

Web: HTML, CSS, Tailwind, React, Next.js, Node.js, Firebase, MongoDB, Supabase, Websockets

AI/ML: Scikit-learn, Pandas, Numpy, data preprocessing, model training, image processing, hyperparameter tuning, TensorFlow, PyTorch, MLOps, RAG pipelines, FAST API

Tools: Git, VS Code, Linux, Power Bi, Excel, Data Formulator

Cloud/DevOps: AWS (SAA-C03), Docker, Kubernetes, Gitlab, CI/CD pipelines, Terraform, Jenkins, JCasC, Ansible, ArgoCD, GitOps, EKS, Cloud native agents, HELM, NGINX Ingress Controller, Apache httpd, Kafka, Github Actions, Grafana, Prometheus, Istio, OWASP, Trivy, Sonarqube

EXPERIENCE

CTO & Co-founder | NoQuant Labs Pvt Ltd

June 2026 - present

- Sole AI Engineer & Founding Developer, leading the complete SDLC from system architecture, LLM engineering, backend development, and AWS deployment of an AI-powered quantitative finance & market research SaaS. Built a Bloomberg-style research platform featuring institutional quant models, ChandraQuant, AI News Intelligence, NLP-based stock screener, and a probabilistic backtesting engine across stocks, crypto, forex, commodities, and IPOs. Partnered with TradingView.

Forward Deployed Engineer | Sion Health Pvt. Ltd.

March 2026 - June 2026

- Conducted market and business research, analyzed startup and investment data, and prepared detailed reports and pitch-deck insights to support strategic decision-making. Collaborated with cross-functional teams to track KPIs, identify business opportunities, and deliver actionable recommendations within deadlines.

Machine Learning Research Intern | Samsung Prism — [Project-repo](#)

August 2025 - April 2026

- Developing a plant health-report generation and disease detection system using U-Net++ for high-resolution leaf segmentation and EfficientNet for multi-species disease classification, supported by stacked sparse autoencoders for unsupervised representation learning. The pipeline includes t-SNE-based feature-space analysis, advanced preprocessing, and segmentation-aware feature engineering to maximize detection accuracy and robustness across indoor plant datasets.

CloudOps Intern | Raymond Pvt Ltd

May 2025 - July 2025

- Deployed RaymondMart, a B2B e-commerce platform for raw cloth, on AWS Cloud ensuring high availability and scalability. Implemented cloud deployment pipelines and optimized infrastructure to reduce AWS cost and improved performance and cost efficiency and Collaborated with cross-functional teams (AeonX) to align cloud deployment with business requirements

PROJECTS

ChandraQuant: Detecting Trends in Indian Stock Market using Astrology github.com/vinitpatil519/chandraquant

- Developed a hybrid quantitative trading framework integrating Jyotiṣa (Tithi, Nakṣatra, Chandra-kalā, Graha-gati) embeddings with technical indicators using RF on 30+ years (1996–2026) of NIFTY market & NASA JPL ephemeris (satellite) data. Validated through TradingView, Monte Carlo simulation, bootstrap/permutation testing, & historical crisis backtesting, demonstrating regime detection across the 2008 GFC, 2020 COVID-19 market crash, 2026 Iran-US war and also 2028-end global market crash, with **92.6% profitable trades** (738/797 winning trades) during backtesting.

Deployment of Production-Grade Retail E-Commerce Platform with GitOps on AWS

- Deployed a 5+ microservices retail application on Amazon EKS using Docker, Kubernetes, Helm, NGINX Ingress, and AWS Load Balancer Controller. Provisioned cloud infrastructure with Terraform and implemented GitOps CI/CD using GitHub Actions and ArgoCD for automated Kubernetes deployments. Configured service discovery, ingress routing, autoscaling, and cloud-native networking on AWS.

Hyperscale - Handling 50k requests in one second at peak github.com/vinitpatil519/handling-50k-requestes-per-sec

- A production-style, hyperscale DevOps reference platform you can run for free on a laptop with Kind, and deploy to Amazon EKS when you want real capacity. It ships with titanload, a Go load generator built for this project: HTTP/1.1, HTTP/2 (h2c/TLS), gRPC, open- and closed-model load, live RPS / p50–p99.9 terminal dashboard, SLO gates for CI, and a coordinator/worker mode that spreads load across many machines or pods and merges their histograms exactly.

peak DevOps Handling 50k requests in one second at peak github.com/vinitpatil519/peak-DevOps

- Production-style architecture with a 3-tier online store (React, Apache, FastAPI, PostgreSQL, Redis) with Jenkins CI, Argo CD GitOps, Helm, Istio mTLS, canary/blue-green releases, Prometheus/Grafana/Loki, Terraform on AWS EKS and Ansible. The same Helm charts run free on kind/minikube or on AWS EKS; only values files differ. Jenkins builds and tests, Git records the decision, Argo CD deploys, Istio secures traffic, Prometheus/Grafana/Loki show what is happening.

ACHIEVEMENTS

- Smart India Hackathon internal finalist, 2023 (top 10 among 750+ teams)
- Member of Student Council 2024-2025 & 4x Branch Representative CSE (Ai and Robotics) 2023-2027

LICENSES & CERTIFICATIONS <https://github.com/vinitpatil519/licenses-and-certifications>

- AWS Certified **Solutions Architect - Associate (SAA-C03)** & AWS Certified **Cloud Practitioner (SAA-C03)**
- AWS Certified **AI Practitioner (AIF-C01)** | IBM Certified **Data Literacy** | Databricks Accredited **Ai Agent Fundamentals**
- Oracle Certified **OCI** | Oracle Certified **Agentic Ai Foundations Associate**
- Fractal Certified in Structured Approach in Problem Solving