

Contact

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Top Skills

Project Coordination
Operations Management
Project Management

Languages

Marathi (Limited Working)
Hindi (Native or Bilingual)
English (Professional Working)

Certifications

AWS solution architect

Pradeep Dhote

Generative AI, Agentic AI, LLM Ops, MLOps
Bengaluru, Karnataka, India

Summary

Technology leader with over 15 years of experience across Telco, Generative AI, Agentic AI, and LLMOps, Cloud, and AI domains. Proven expertise in 5G Core Network architecture, Cloud-native DevOps, AI/ML pipeline deployment, and operational excellence. Currently leading initiatives at the intersection of Generative AI, Agentic AI, and LLMOps to build intelligent, self-improving, and resilient telecom infrastructures. Strong focus on transforming legacy systems with intelligent automation, language model deployment, and agent-driven orchestration frameworks.

Experience

QuadGen Wireless Solutions

Technical Project Manager

June 2024 - Present (1 year 1 month)

- Spearheading integration of Generative AI for dynamic 5G network configuration and troubleshooting using LLM-powered agents.
- Leading initiatives for Agentic AI systems to monitor, auto-resolve alarms, and interact with users using LangChain + RAG over historical ticket data.
- Built FastAPI-based orchestration layer for AI agents handling 5G Core service management.
- Designed LLMOps infrastructure for versioning, testing, and performance monitoring of telecom-specific fine-tuned LLMs.

Mastec quadgen wireless LLP

Lead DevOps Engineer

January 2021 - June 2024 (3 years 6 months)

Bengaluru, Karnataka, India

- Project prerequisite planning, designing, and implementing 5G Network infrastructure and

deployment.

- Coordinate with the teams and stakeholders, manage resources, and address any issues that may arise during deployment and R&D process.

- Deployed E2E CICD pipelines for 5G CNFs and AI services across multi-node EKS clusters.
- Integrated ML models for anomaly detection into telecom dashboards.
- Automated CNF deployment & infrastructure setup using Terraform, Helm, and Kubernetes.

Integrated telemetry systems with Prometheus and Grafana for real-time network and AI model

Performance.

- Deployment of 5G Core Network function on On-premises VM and Cloud. 5G Node Functions e.g.

AUSF, UDM, PCF, SMF, AMF, UPF, NRF and UDR)

- Wireshark trace and RLS di-sector configuration with core and RAN to Achieve and decode L3

Message

- AI-Powered Network Assistant: Built with OpenAI APIs, LangChain, and internal network logs for proactive troubleshooting, root-cause analysis, and alert summarization.
- Agentic AI for Telco Ops: Implemented task-driven agents for real-time decision-making, command execution on network elements, and ticket triage via vector embeddings.
- LLMOps Pipelines: Managed lifecycle of fine-tuned transformer models for call drop prediction, using MLflow, Ray, and FastAPI; deployed on EKS.

5G Core Intelligent Testing: Integrated agent workflows for test case generation, trace analysis (Wireshark + LLM), and automatic documentation using GenAI.

General Technical Services

Data Analyst

June 2018 - June 2020 (2 years 1 month)

Working as a Data Science:

- Expertise in Data Analysis, statistics, programming and ML techniques

- Hands- on experience in building predictive models using Supervised and Unsupervised Machine learning algorithms: Regression, Classification, Clustering and Natural language processing ,
- Ability to work on structured, semi-Structured and UN-structured data
- Extensive Model building experience with Machine Learning/NLP
- Hands on training in different NLP & ML models. Classification and Recommendation system.
- Built Tableau dashboards and applied clustering, regression, and classification

Ericsson

Senior Network Engineer

September 2014 - May 2018 (3 years 9 months)

Bengaluru, Karnataka

MBNL UK(EE & 3UK) Project - Sept 2014 - May 2016

- #Analyzed existing network and application architectures, presenting findings on possible enhancements and improvements to senior decision-makers.
- #Established and monitored key performance metrics to verify consistent compliance with important networking standards.
- #Capacity management traffic dimensioning based on existing used cases analysis.
- #Monitored network capacity and performance, as well as diagnosed and resolved complex network problems.
- #Performed Tuning and optimization 1st, 2nd and 3rd carrier LTE systems for EE & 3UK,
- #Analysis existing features and parameter and performed logical changes to improve coverage ,mobility ,accessibility , retainability.
- # Doing Site Shake Down, Go No Go Lite Data & Voice Analysis and Report, Circuit Switch Fallback Analysis, IFHO Analysis,
- #UE traces, Site parameters audits, request and verify physical and logical changes to improve coverage, mobility, accessibility, retainability and time on LTE

QuadGen Wireless Solutions

Senior Radio Frequency Engineer

February 2013 - September 2014 (1 year 8 months)

Bengaluru, Karnataka

AT&T (USA) Project - LTE & WCDMA- Optimization & Tuning

#Capacity & coverage data analysis and Visualization for clusters and county.
#Responsible for Data Pre-Processing and Data Transformation to analyse Network Performance.
#UMTS & LTE Drive Test Analysis, IRAT & IFHO Analysis, Coverage Analysis & recommendations.
#Event analysis and improve Accessibility, Retainibilty & Mobility.
#Pilot pollution analysis, Improving RSCP/RSRP & EcNo/RSRQ by recommendations of parameters.
#Cluster analysis for LTE & UMTS and KPI Report generation.
#Single Site and cluster KPI Analysis after Launch, KPI Report generation using the Quantum, WIPS Analysis for load shearing and PRACH performance using the SAP-BO.
#ACTIX Spotlight/Analyzer/ GNG Cluster KPI reports to troubleshoot the issues for sites.
Identifying the minima in the Scree plot to analyze the clustering
Performing Anova test for the model.
#Training the new hires with the current scope of work & process.

GTL Limited

Radio Frequency Optimization Engineer

September 2010 - February 2013 (2 years 6 months)

Chandigarh, India

Reliance 3G Project - Sept 2009 - Feb 2013

#Capacity & coverage data Visualization using Mapinfo, Actix Gio
#Responsible for Data Pre-Processing and Data Transformation analyse drop calls of the network.
Expertise in BO reports to analyze
Instant KPI monitoring using AMOS commands.
Performing Special Event Monitoring.
#Suggest solutions, resolve queries and provide recommendations to improve the quality of network..
#Optimizing UTRAN parameters, Timers and Counters to improve Network performance.
#UMTS/HSPA radio access network optimization (capacity, coverage, quality) by checking counters and stats parameters, neighbor list optimization, Inter-RAT parameters, checking channel elements, and power congestion, and HSDPA Throughput

#Analysis of drive test data (Layer 3 Messages), identify weak coverage/ quality areas, call related issues (CS/PS setup time, Pilot pollution , interference Ec/No , missing neighbor , call drops, RAB Drops , RRC Setup Failure Issues , RAB establishment issues, IRAT Handover Problems , less throughput, rectification) of the same.

Education

University Institute of Technology, RGPV

Bachelor's degree, Electrical, Electronics and Communications
Engineering · (2005 - 2009)