

# ANIL NARAYANAN

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Bangalore, India



anilnarayanan.github.io

## SKILLS

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### Cloud & Infrastructure

AWS, GCP, Azure, VMware, Kubernetes, Docker.

### MLOps, DevOps & CI/CD

MLFlow, GitHub Actions, Jenkins, Terraform, Ansible, Docker, Kubernetes.

### Full Stack Development

- *Backend:* Django, Flask, Spring Boot, PostgreSQL, SQLite, Cassandra, MongoDB, Redis, Memcached, FAISS, Weaviate, Pinecone, Chroma, OpenSearch, Neo4j, Salesforce Apex.
- *Frontend:* JavaScript, ReactJS, Bootstrap, Bulma, HTML, CSS, Salesforce Lightning.

### AI/ML, Data Science & NLP

- *Technologies:* LangChain, LangGraph, Langfuse, LlamaIndex, Azure, AWS & GCP AI Services, NVIDIA NeMo Guardrails, TensorFlow, PyTorch, scikit-learn, Keras, Pandas, NumPy, Generative AI models, spaCy, NLTK, Matplotlib, Seaborn, KNIME.
- *Techniques:* EDA, Data Preprocessing, Feature Engineering, Model Fine-tuning, Statistical Analysis, Data Visualization, Hyperparameter Optimization, Model Performance Evaluation.
- *Applications:* Chatbot Development, Machine Translation, Agentic Workflows, Text Classification, Sentiment Analysis, NER, RAG.

### Generative AI & Automation

OpenAI(GPT Models), LLAMA, Bert, Hugging Face, REST APIs.

### Hybrid Cloud & BCDR Solutions

VMware, OpenStack, AWS, Azure, GCP, Veeam, Zerto, AWS CloudEndure, SDDC, SDS, SDN.

### Data Scraping & Insights Generation

BeautifulSoup, Scrapy, Selenium, OpenAI APIs, Large Language Models (LLMs).

## PROFESSIONAL SUMMARY

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Open Group Certified Solution Architect with over 18 years of experience in Enterprise and Cloud Architecture, Application Modernization, DevOps, and Full Stack Development. Skilled in implementing AI/ML solutions and automation frameworks across Financial Services, Automotive, IT, Retail, and Government sectors. Proven track record of leading teams to deliver innovative solutions, including AI/ML projects and automation-driven efficiency improvements.

## PROFESSIONAL EXPERIENCE

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**Associate Director, Software Architecture**  
**Kyndryl Solutions Pvt. Ltd., Bangalore**

January 2022 - Present

### ***Conferences & Thought Leadership***

Represented Kyndryl at NASSCOM Technology & Leadership Forum, 2024

- Showcased Kyndryl's cloud and AI solutions, engaging with industry professionals and potential clients.
- Facilitated discussions on digital transformation and modernization strategies, highlighting innovations in AI and enterprise architecture.

### ***Financial Services***

- *Client: Reserve Bank of India Innovation Hub (RBIH)*
  - Led the development of RBI's Unified Lending Interface (ULI), integrating 18 lenders into a unified platform, launching 40+ services, handling over a million API calls and reducing loan processing times by 40%.
- *Client: CreditAccess Grameen*
  - Developed a sentiment analysis solution using data extracted from annual reports, financial feeds, and financial news sources. Leveraged NLP models to generate time-series sentiment trends and strategic insights. Delivered interactive dashboards that improved stakeholder visibility into organizational performance and customer perception.

### ***Automotive***

- *Client: Honda Motorcycle & Scooter India (HMSI)*
  - Sentiment analysis solution to aggregate and preprocess customer feedback from social media, bike-review platforms, and dealer-network surveys. Engineered custom scrapers and preprocessing workflows; boosted NER precision for bike-brand/model extraction via synthetic data (Llama 3, Deepseek-r1). Leveraged Azure OpenAI for sentiment categorisation, topic modeling, and delivered interactive dashboards that gathered actionable insights - impacting product development, marketing campaigns, and dealer-experience enhancements.
- *Client: Hero Motor Corp*
  - Engineered agentic GenAI query system, leveraging SQL-driven quantitative and RAG-based qualitative pipelines. Architected a semantic router to classify and merge queries, and built custom scrapers, embedding models, and vector search workflows to gather insights from Team-BHP, BikeWale, and BikeDekho. Incorporated guardrails and filters to guarantee response accuracy, security, and relevance.
- *Client: Mercedes-Benz Research & Development India*
  - Multilingual MT framework fine-tuned on GenAI/sequence models (Flan-T5, MarianMT, Fairseq) on diverse domain-specific datasets (OPUS, Hugging Face, LLM-generated corpora). Implemented end-to-end solution for data preprocessing, model selection, training, evaluation (BLEU, METEOR), and deployment. Delivered 75–80% manual effort savings and achieved a BLEU score of 73.7%, significantly accelerating global content rollout.

## **Aviation**

- *Client: Bangalore International Airport (BIAL):*
  - Collaborated on the development of PoCs utilizing GenAI to enhance passenger experience, including AI-driven avatars for digital kiosks, intelligent chatbot Q&A systems, and automated social media sentiment analysis. Served as a key member of the RFP response team, leading the formulation of solution strategies, defining high-level technical architecture, and aligning AI-driven initiatives with client business objectives.

## **EduTech**

- *Client: Jain University*
  - Built AI-powered online student proctoring solution using open-source technologies with hybrid edge-cloud architecture, achieving dramatic cost reduction through automated violation detection and intelligent processing, supporting 500-1000 concurrent users.

## **Marketing**

- *Client: Kyndryl Marketing*
  - Drove a multi-cloud, self-service language translation platform, integrating Azure & Google APIs with custom glossaries - delivering 10x efficiency, 80% accuracy, and a 160-day time-to-market acceleration.

## **Infrastructure**

- *Client: Kaiser Permanente*
  - Developed an automation engine leveraging GenAI to streamline the creation and management of Kubernetes Kustomize overlays. The solution intelligently generates overlay configurations based on deployment context, reducing manual intervention. Achieved a 60% reduction in configuration time and 30% acceleration in environment setup, significantly improving DevOps efficiency and consistency.
- *Client: Kyndryl Accounts*
  - Created AI-powered tools for migrating legacy scripts to IaC, cutting migration timelines by 50% and reducing manual effort across cloud infrastructure projects.

## **Software Architect**

March 2011 - Dec 2021

**IBM India Pvt. Ltd., Bangalore**

## **Client Offerings**

- *Domain: Modernization and Migration*
  - Lead developer for the IBM Software Defined Modernization and Migration platform, enhancing workload migration efficiency by 30%.
- *Domain: Digital Identity Verification Solutions*
  - Architected a digital identity verification solution with document and selfie verification, mitigating fraud and strengthening privacy protection.
- *Domain: Nonprofit and Government Solutions*
  - Developed an online grant application system on Salesforce, streamlining grant tracking and reporting to reduce administrative workload.

- *Domain: Infrastructure*
  - Engineered an automation framework using ReactJS and GitHub Actions to deploy infrastructure and application stacks on public Clouds.

### **Media**

- *Client: WPP Plc.*
  - Developed cloud solutions with SDDC, SDS, and SDN, along with business continuity and disaster recovery strategies for hybrid clouds, improving infrastructure performance by 20% and system resilience by 25%.

### **Subject Matter Expert**

Nov 2009 - Mar 2011

#### **KPIT Cummins Infosystems Ltd., Bangalore**

- Resolved technical issues in firmware, middleware, and application software.
- Conducted research on product internals and communicated findings to support teams.
- Managed product escalations, performed RCA, and implemented solutions.
- Communicated effectively with technical and non-technical stakeholders.

### **Technical Solutions Engineer**

May 2007 - Nov 2009

#### **Hewlett Packard Enterprise, Bangalore**

- Specialized in providing support to HP Business Critical Enterprise clients and engineers on the VMware virtualization platform.

### **Software Engineer**

June 2000 - Sep 2002

#### **National Institute of Rural Dev., Hyderabad**

- Led the design and development of the institution's web portal for seamless functionality.
- Engineered and enhanced the library management product suite (CLIC) to manage books, journals, issues, returns, magazine, and media cataloging, incorporating advanced reporting features for comprehensive record-keeping and reviews.

## **EDUCATION**

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### **PG Diploma, AI/ML**

2024-2025

IIIT, Bangalore

### **PG Diploma, Software Engineering**

2019-2020

IIIT, Bangalore

### **M.S. Information Technology**

2003-2005

University of Southern Queensland, Sydney, Australia

## **CERTIFICATIONS**

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- Open Group Certified IT Architect
- Cisco Certified
- VMware Certified Professional
- RedHat Certified
- HashiCorp Certified: Terraform Associate