

RAGHAVENDRA RANGASWAMY

Data Scientist, Gen AI Engineer & Data Engineering

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PROFESSIONAL SUMMARY

Versatile technology leader with 13+ years of experience spanning Data Science, Generative AI & Data Engineering. Proven ability to lead cross-functional teams, architect enterprise-grade microservices platforms, and build advanced AI systems utilizing LLMs, RAG pipelines, and Agentic AI frameworks. Experienced across telecom, healthcare, financial services, and retail domains with hands-on expertise in cloud platforms (GCP, AWS, Azure), big data ecosystems, and end-to-end data pipelines.

CORE COMPETENCIES

- Solution Architecture & Design
- Team Leadership & Mentorship (15–20 Eng.)
- Cloud Architecture (Azure, AWS, GCP)
- Gen AI, LLMs, RAG & Agentic AI
- Big Data & GCP Data Engineering
- Microservices & API-First Design
- DevOps, CI/CD & Containerization
- Security Best Practices (AES-256, JWT)
- Full Stack Dev (PHP, Python, Node.js, React)

TECHNICAL SKILLS

AI/ML & Gen AI: LLMs, RAG, Agentic AI (LangChain, LangGraph), NLP, Computer Vision, MCP Servers, AWS Bedrock, Vector DBs (FAISS, Pinecone), Streamlit

Big Data & GCP: BigQuery, Dataproc, Dataflow, Apache Beam, Cloud Functions, Pub/Sub, Spanner, Redis, Airflow/Composer, Hadoop, Hive, Sqoop, HDFS

Languages & Frameworks: PHP, Python (FastAPI, Flask, Streamlit), Node.js (ExpressJS), ReactJS, Java/J2EE, Scala, JavaScript, jQuery, HTML, CSS, AngularJS

Cloud Platforms: Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure

Databases: MySQL, MSSQL, Oracle, Teradata, MongoDB, Spanner, BigQuery

Streaming & Messaging: Kafka, Pub/Sub, RabbitMQ, Aerospike

DevOps & Tools: Docker, CI/CD Pipelines, Git/GitHub, Jenkins, JIRA, Swagger, REST APIs, Socket.io, Maven

Frameworks: Spring Boot, Hibernate/JPA

PROFESSIONAL EXPERIENCE

Engineering Lead – (Data Engineering & Data Scientist) | HDFC Life | Bengaluru

January 2023 – Present

- Contribute to Development and Deployment of AI Solutions across various domains.
- Lead web and digital platform architecture for HDFC Life's enterprise applications, driving cloud migration strategy and integrating DevOps practices across the SDLC.
- Collaborate with project managers, QA leads, and business stakeholders to translate requirements into high-quality technical solutions.
- Migrated the environment to support a multi-cloud architecture from Amazon Web Services to Microsoft Azure
- Writing code for Jobs and deployed on Composer/Airflow, CI/CD Pipeline for GKE.
- Implemented Data enrichments such as filtering, pivoting, format modeling, sorting and aggregation using Big Query tools.
- Implemented CI/CD pipeline for automating build while committing changes to query, Data flow, Data proc.

- We have to take data from Data proc as Input and process it for Ingestion on the Data flow and monitoring Airflows job.
- Used Airflow Scheduler system to automate the pipeline workflow and orchestrate the map reduces jobs that extract the data on a timely manner.
- Optimizing existing algorithms in Hadoop using Spark Context, Spark SQL, Dataframe and Pair RDD.
- Spearhead modernization through adoption of microservices, API-first design, and containerization (Docker), improving scalability and deployment speed.
- Manage cross-functional teams of 15–20 engineers; mentor junior developers and foster a culture of continuous improvement.

Technologies: Dataproc, Airflow/Composer, Big Query, GCS, Cloud Functions, CICD, Spark, Python, fastapi, LLMs, RAG, Agentic AI (LangChain, LangGraph), NLP, Computer Vision

Senior Software Engineer IV | Tanla Solutions | Bengaluru

August 2021 – January 2023

- Design and implement multi-agent architectures and work with vector databases (FAISS, Pinecone).
- Led migration from Hive to BigQuery and Teradata to BigQuery; performance tuning on BigQuery, Spark, and Dataflow.
- Implemented CI/CD pipelines, data enrichment workflows (filtering, pivoting, aggregation), and real-time streaming with Kafka/Pub/Sub into Spanner.
- Improved data accuracy by 15% via data quality checks; optimized SQL query performance by 10%.
- Conducted code reviews, mentored team members, and allocated tasks to meet project deadlines effectively.
- Worked on components like File Processor Data Transpose, Compute using Spark, Scala/JavaAPI.
- Worked extensively in performance optimization by adopting/deriving appropriate design patterns of the MapReduce jobs by analyzing the I/O latency, map time, combiner time, reduce time etc.
- Optimizing existing algorithms in Hadoop using Spark Context, Spark SQL, Dataframe and Pair RDD.
- Processed and loaded the final data into hive tables by using Spark SQL.
- Worked in the development of RestAPIs using Spring Boot with Swagger API.
- Generating Excel and JFreeChart using Apache POI API and Spring Boot.
- POC on BIRT (Business Intelligence Reporting Tool) is suitable for our business application.

Technologies: Python, fastapi, Hadoop, Spark, PHP, Yii1.x/2.x, MySQL, RabbitMQ, Aerospike, JavaScript, Socket.io, jQuery

Solution Architect | My Healthcare (InnoCirc Ventures Pvt. Ltd.) | Bengaluru

February 2018 – August 2021

- Architected and led development of a comprehensive EMR system covering patient data, medical histories, appointments, prescriptions, and billing.
- Implemented AES-256 encryption for PII data and token-based authentication for all API requests.
- Worked directly with CTO and COO on new module development and architectural improvements.

Technologies: PHP, Node.js, Python, ReactJS, MongoDB, Laravel, REST APIs

Senior Software Engineer | NDTV Worldwide | Bengaluru

September 2016 – January 2018

- Developed AZAM TV news channel website with live news updates and subscription-based content.
- Built hospital management modules for Moolchand Hospital and contributed to Dramasangat (Media Prima).

Technologies: PHP (Laravel, Yii2), MySQL, jQuery, JavaScript, payment gateway integrations

Senior Technical Member / Sr. Software Engineer | Tanla Solutions Pvt. Ltd. |

Bengaluru/Hyderabad

August 2014 – August 2016

- Developed telecom products including IVR, Click2Call, Automated Calls, and Minutes of Meeting tools for Fast Track (Vodafone).

- Worked on Hadoop ecosystem (Spark SQL, Hive, HDFS, Sqoop), RestAPIs, reports generation, and A2P messaging platforms.
- Led team task allocation, code reviews, and ensured industry standard adherence.

Technologies: Java, Python, Hadoop, Scala, Spark, Hive, PHP, Yii, Spring Boot, RabbitMQ, Aerospike, MySQL, JavaScript

Software Engineer | **RSoft India** | Hyderabad/Bengaluru

April 2013 – August 2014

- Developed TyreGenius (vehicle tire tracking system) and ZaBeauty (eCommerce platform); built REST APIs for T.I.M.E. education platform.

Technologies: PHP (Zend, CodeIgniter), MySQL, SQL Server, JavaScript, jQuery, HTML, CSS

Software Engineer | **Lumin Innovative Web Services** | Bengaluru

January 2010 – April 2013

- Developed custom CMS, bus ticket booking system (BestBus.org), QuackQuack dating platform, and Jago Party political website modules.

Technologies: PHP, HTML, CSS, MySQL, third-party API integrations

EDUCATION

Master of Computer Applications (MCA) | Sri Venkateshwara University, Tirupati | 2008 / 2011

B.Sc. Computer Science | P.V.K.N. Government College | 2004

CERTIFICATIONS & AWARDS

- Google Cloud Certified – GCP Developer (7+ years GCP expertise)
- Best Employee Award (2015, 2016, 2020) – Recognized three times for exemplary performance at Tanla Solutions and InnoCirc Ventures

INDUSTRY DOMAINS

Financial Services & Banking | Telecommunications | Healthcare & EMR | Retail & eCommerce | Media & Entertainment