

DEEPAK KUMAR OJHA

Contact: +91-9643302385, Email: deepakkumarojha@gmail.com

SUMMARY

Competent, diligent & result-oriented professional with **11+ years** of cross functional experience, seeking opportunities to transform company's practices into innovative, cost-effective automation solutions leading to more efficient operations.

Proficient in designing and implementing multi-tier solutions on prem or in cloud using various AWS Services. Have worked extensively in Business Process Re-engineering, Data Analytics, Solution Architecture, Automation Implementation and received accolades for innovative and problem-solving approach.

USP: Quick Learner, Adaptive

TECHNICAL SKILLS

Cloud Technologies:	Amazon AWS (Compute, Storage, Database, Security, Identity, Networking Services)
Serverless Architecture:	API Gateway, S3, Lambda, Glue, DynamoDB
Programming Languages:	Python, PHP, R
Data Analysis:	Pandas, Numpy, Dask, Vaex
Databases:	MySQL/MariaDB, PostgreSQL
NoSQL Databases:	DynamoDB
Data Warehouses:	IBM Netezza
Business Intelligence:	Business Objects, PowerBI
Web Framework:	LAMP, Flask
Web Server:	Apache, Nginx
Deployment:	GitHub, GitLab
Security:	SSL, Web vulnerability mitigation (XSS, CSRF etc)
Operating Systems:	Linux/Windows
Industry Experience:	Telecom Analytics - Wireless (2G/3G/4G/5G), Wireline (Fiber Optics)
Process Frameworks:	ITIL, eTOM, BPMN, RPA-BluePrism



Automation Solution Architect
Nokia

Gurgaon, India
Jul 2015 – Present

Unified Datafill Automation (UDA)

Environment: AWS Cloud

Services: VPC, EC2, ASG, ELB, Route53, S3, EBS, RDS, CloudWatch

Languages: Python, PHP, MySQL

Analyzed the customer requirement and designed the system architecture in AWS to achieve **100% automation** which was the business goal. The web solution provides E2E digitization and automation in the 4G/5G network for new site rollouts and site modernization activities with error-free SCF files in each run. It significantly reduces the site visits due to errors and achieved a cost saving of **500k Euros** per year. Manual efforts are reduced from **8 Hours/day** to **0.5 Hours/day**

The application is scalable, highly available and fault tolerant with users from around the globe. It deployed on a group of EC2 instances with elastic load balancer which scales automatically and uses a RDS database which handles complex and concurrent queries. It is secured with Https/SSL ciphers and updated regularly with security patches for web vulnerabilities. Backup strategies (EBS Snapshots, AMIs) are in place for disaster recovery.

Nokia Mobile Broadband Traffic Index (MBiT)

Data Analytics – Python (pandas), PowerBI

Device specifications data is collected from different sources (Bharti, Vodafone, GSMA, Govt TRAI) to analyze, correlate and derive meaningful insights from data to generate consumption pattern of Indian mobile subscribers, Y-o-Y smartphone growth and it's comparison with global market, technology growth pattern.

This helps operators to take strategic decision on future investments in 5G, IoT and Private LTE. The insights from the analysis is published by Nokia India in Press release every year.

Mobile BackHaul Analytics (MBH)

Data Analytics & BI – S3, AWS Lambda, Python, RDS-MySQL, PowerBI

Conceptualized and designed a big data analytics & visualization app to identify and troubleshoot the performance issues of modern IP backhaul networks. The performance analysis solution helped clients to identify and resolve packet loss, latency, and jitter problems in the backhaul network.

This application collects various reports from FTP servers and measures backhaul performance parameters. It also correlates between KPIs and visually displays trends and patterns, worst cells, connectivity, capacity etc. This in-house solution had resulted in cost avoidance of **750k Euros**.

Robotic Process Automation (RPA)

Process Architect

Worked as a consulting process architect for global RPA team. Provided recommendations to re-engineer the processes to achieve improved efficiency. Collaborated with SMEs in process discovery sessions and prepared business cases for approval. Prepared Process Design Documents (PDDs) which includes the key-stroke-level detailing of the As-Is procedural steps done by the users and the design of the To-Be automated flow when configured into RPA.

Documented the High and Low-Level Process maps, application details, Volumetric, Seasonality, Exception Handling, FTE, Productivity metrics, Average Handling Time, Interdependencies, Financial or regulatory / compliance

Last delivered project was of “Service Order Delivery Process” which resulted in cost saving of **~100k Euros**

colt

Automation Engineer

Colt Technology Services

Gurgaon, India

Oct 2013 – Jul 2015

Reporting Suite Automation

IBM Netezza, Business Objects

Lead a project to migrate all network planning reports from legacy Excel-Access based system to advanced Business Intelligent Suite (Netezza, Business Objects). Analyzed and converted all existing As-Is logic, database schemas, data sources, SQL queries to Netezza based SQL. Performed testing in BI environment and finally migrated the reports in Business Objects (BO).

Many hours of manual efforts being put by capacity planners are saved for running the excel-access based reports.

Project Management

Worked as a Project Manager for delivering 12*10Gbps bulk capacity to Colt's prime customer Level3 in strict timelines. This timely and efficient implementation generated revenue of **310k Euros** and Capex saved of **23k Euros** during project

Worked as a project manager to implement 100Gbps ring in Italy for customer AT&T in a short duration by implementing a plan-B which generated revenue and improved the customer perceived value.



Engineer – Process & Tools
Alcatel Lucent (Now, Nokia)

Gurgaon, India
Apr 2012 – Oct 2013

Process Re-engineering & Automation

Mainly responsible for developing process for Alcatel-Lucent Network Operation Centre (NOC) Operations for Bharti India including documentation of processes, Method of Procedures (MoPs), process monitoring for compliance and internal audit.

Developed a network performance analytics solution for Airtel & responsible for its development & maintenance. Achieved zero-touch automation of application to fetch data from different data sources without any manual intervention. Performed database integration with OSS systems for zero manual touch reporting of Key Performance Indicators (KPIs)



Engineer – Process & Tools
Nokia

Gurgaon, India
Feb 2010 – Apr 2012

Process Re-Engineering

Worked as a process consultant for analysis and automation of Nokia's customer requirements for India region. Re-Engineered and deployed operational and business processes for clients. Improvement of business processes by identification of critical issues, process gaps, risks and fixing these through effective collaboration improving process wherever required. Conducted user trainings for process awareness.

ACHIEVEMENTS:

- # Received 2 consecutive promotions within 2 years for consistent performance
- # Received Applaud Excellence Award and appeared in Nokia Newsletter (Ear to the Ground) twice for developing automation solutions which resulted in huge cost savings
- # Received Praise Excellence Award for data analysis works during Nokia MBiT 2021 press release

TRAININGS:

- # ITIL V3 foundation certification
- # IBM Design Thinking Practitioner, IBM Applied Data Science, IBM Applied AI, IBM AI Foundations (**Acclaim Badges**)
- # Data Science, Machine Learning, Statistics & Mathematics from Coursera authorized by University of Amsterdam, UC San Diego and Imperial College of London, Applied Data Science certification from University of Michigan (Coursera)

EDUCATION:

- # B. Tech. (Electronics & Telecommunications Engg) from NMIET, BPUT, Odisha (2005-2009), **8.42 CGPA**
- # +2 Science from Stewart Science College, Odisha (2002-2004), **74%**
- # School from Fertilizer H.S. School, Odisha (2002), **84%**