



KAUSHIK CHOWDHURY

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SENIOR LEVEL FREELANCE/CONTRACTUAL CONSULTANT

Machine Learning ARCHITECT/ Big Data Engineer / Application Design & Development / Visual Storyteller

Extensive experience in executing full life-cycle development projects; ramping up projects with pre-defined vision, strategy and innovation targeting senior level assignments.

CORE COMPETENCIES

- Machine Learning
- Solution Architecture
- Technical Architecture
- Requirement Gathering & Analysis
- Technical Project Lead
- Data Management/ Data Warehouse/ Data Visualization
- Project Implementation & Roll-outs
- Automation/ Process Improvement
- Pre-sales Consulting
- Client/ Stakeholder Engagement
- People Management

PROFILE SUMMARY

- Over **16 years** of rich IT Consulting experience across CPG, Telecom, Manufacturing, Energy & Utility domains
- **Forward-focused Software Architect** with expertise in concepts of end-to-end project planning & implementation from scope management, to activity sequencing, effort & cost estimation, risk analysis to quality management in coordination with the business & stakeholders
- Excellence in managing teams of **Architects & Developers** right from requirements gathering till design, implementation & deployment for large scale projects including **Big Data, Artificial Intelligence systems along with networking, IT infrastructure and cloud**
- Managed & ensured **project deliveries** in a timely manner involving seamless onsite/ offshore coordination and transparent communication with all stakeholders at all phases
- Extensive cloud platform experience in **Google, AWS and Azure Clouds**; expanded the organization's effort in the field
- Managed **requirements gathering, collation of project functional and technical requirements**; followed up with clients throughout the project lifecycle to ensure full understanding of needs and concerns
- Experienced in **contributing actively throughout the development phase** by tracking technical issues and solving problems especially for the issues spanning across multiple programs
- Successfully led projects for esteemed set of clients involving **Fortune 500 Telecom, Fortune 50 in CPG industry** and so on

CURRENT PROFILE

AIML Freelancer, Jaipur

- Currently working as AIML freelancer
- Advanced knowledge of Full Stack Python and PySpark on Big-data practice.
- Part time instructor

PREVIOUS EXPERIENCE

Capgemini, Mumbai
Insights and Data COE- Senior Manager

Dec 2018 till Jan 2022

Key Result Areas:

- Working on Big Data technologies like PySpark, Spark Structured Streaming, Apache Kafka, Splunk (SPL), Elasticsearch
- Automated Drift Analysis using MLFlow, containerizing applications using Docker, Data Profiling and Governance
- Mapping clients' requirements, attending / conducting business user meetings, driving solution & technical architecture plans and providing them customized business solutions
- Delivering regular health check of the solutions offered and ensuring that solutions, technical and services meet or exceed organization / industry quality standards and end user requirements
- Interacting with team members to ensure smooth progress of defined solution; ensuring adherence to quality norms throughout the implementation process
- Working as a member of the Central Technology Services Group in the organization

Highlights:

- Headed & managed a team to **create AIML based application for log-analytics** for a Fortune 500 Retail Client
- Took charge as **AI ML Architect** in Capgemini, responsible for report generation scripts logic to PySpark jobs with higher optimization using both SparkSQL and DataFrame approach
- **Provided advisory** on many internal projects related to Forecasting Sales Reporting (SDFC & Thor), IT infrastructure and cloud
- Spearheaded the **Technology Centre of Excellence** for a Fortune 500 client of the organization; drove visualization, automation & data management for the client in CPG industry

Fractal Analytics., Mumbai

Feb 2016 – Oct 2018

Advanced Analytics Lead (CPG)– Senior Consultant

Highlights:

- Successfully executed the following:
 - Developed and maintained **Large-Scale scalable scraper (.2 Mn SKUs per day, +200 e-tailer, 20 countries)** for a Netherland based customer
 - Worked under the direct leadership of Marketing Insights and Analytics Leader for a global Fortune 50 CPG client
 - Architected multiple projects (Pricing, returns etc.) and **lead global projects** with weekly calls involving global stakeholders

Reliance Jio, Mumbai

Apr 2015 – Feb 2016

NOC Analytics Lead – Senior Manager

Highlights:

- Part of **Technology Cell- Technology Centre of Excellence** of the company; provide technical consulting on various projects
- Successfully executed the following:
 - Spearheaded project to **Report Incidents and RCA-CAPA** to Executive Management.
 - Developed Machine Learning application to predict MTTR for fiber cut

Transorg Analytics, Gurgaon

Jan 2014 – Apr 2015

Lead Analytics (Telecom)

- Provided AIML consulting to major Telecom Providers in India and Middle East.
- Developed Churn Propensity models using Social Network Analysis using Gephi
- Real Time Twitter Sentiment Analysis using Flume and R

Tata Teleservices, Mumbai, Jaipur

Jun 2009 – Dec 2013

Lead Service Marketing – Deputy Manager

- Working on SAS to run SMS/OBD based on churn propensity models
- Reporting – Cohort Analysis for HNI based on AON / ARPU

Aksh Optifiber – IPTV VOIP, Gurgaon

Jun 2005 – Jun 2009

CRM – MTNL BSNL

- Worked as shift head in NOC-CRM and handled integration between MTNL and NOC.
- Responsible for minimizing the MTTR of Faults, maximum availability of network, Performance and quality of Network

ACADEMIC DETAILS

- **B.Tech. (Electronics Engineering)** from Shivaji University (Distinction), in 2005
- **PGDBA (Advanced Analytics)** from IIM Ranchi, in 2013
- Pursuing **M-Tech Software Systems** from BITS, Pilani

TECHNICAL SKILLS

AIML

Advanced Analytics, Deep Learning, exposure to Image Analytics & NLP

UI Technologies

ReactJS, HTML/CSS

Databases

MySQL, PostgreSQL, Elasticsearch, Splunk

Programming Languages

Python, PySpark, JavaScript, Bash Shell Scripting/Linux Utilities, SPL

Web/Application Servers

Flask, Django, NodeJS

Messaging Frameworks	Kafka, RabbitMQ
Cloud	AWS, Google Cloud
Version Control Systems	Git
Data Visualization	Tableau, Qlikview
IDEs	VScode, PyCharm
Operating Systems	Linux – RHEL, Centos, Fedora, Ubuntu Server, Microsoft Windows

TRAININGS & COURSES

- Natural Language Processing – Udacity License: <https://confirm.udacity.com/LNGVATTR>
- Computer Vision Nanodegree – Udacity License: <https://confirm.udacity.com/R7M9D6PC>
- Celonis Certified Data Engineer
- Neural Network and Deep Learning – Coursera
License: <https://www.coursera.org/account/accomplishments/certificate/QGLZ6MVHYZ8R>
- **Motorola** (New Delhi) ('09) Six Sigma certified Greenbelt certified.

PERSONAL DETAILS

Languages Known: English, Hindi, Bengali

Address: Mumbai, Maharashtra, India

PROJECTS

At Capgemini

- **Project:** Architected and Built AI ML Based Incident Prediction for a Fortune 50 Retail Client
- **Brief:** One of the main engagements was to develop a prediction application for global enterprise-wide logs using Splunk as data-warehouse to predict beforehand the occurrence of incidents affecting customer fulfilment web journey taking incidents from Splunk, BMC remedy and AppDynamics. Used algorithms like iforest for large scale Anomaly detection, Django as backend and Angular as front end.
- **Project:** Led the Visualization, Automation and Data Management Centre of Excellence in Fractal for a Fortune 50 client in CPG Industry
- **Brief:** Led a team of 7 engineers to provide technical expertise and software development capabilities for a variety of projects from advanced visualization, business intelligence solutions to building data warehouses and data marts
- **Project:** Architected and Built Capgemini's Sales Forecasting Pipeline Prediction app
- **Brief:** built in-house due to the company's unique needs. Worked as Solution and Technical architect for this initiative. This engagement involved discussions with stakeholders to understand the business processes and mapping it to system functionality, technology stack selection, platform selection, software development, data warehousing and operations reporting and maintenance. The business process modelling and technical solutioning was done based on Zachmann Framework principles
- **Project:** Architect in Fractal for a Fortune 500 Healthcare Client
- **Brief:** One of the main engagements was to develop and maintain an industrial scale web crawler that was crawling close to a quarter of a million pages every day and processing the same to generate reports and intelligence needed by the company's marketing division. This was deployed on the Google App Engine Platform
- **Project:** Led project in Capgemini on Energy Forecasting for commercial buildings on streaming data.
- **Brief:** Led a team of data scientists and architects to forecast energy demand for sites spread across US. Used Apache Kafka as message broker for real-time ingestion, Google DataProc as spark managed Service and LGBM & LSTM as ML algorithm.
- **Project:** Gesture Recognition Application for a US based Customer

- **Brief:** This is a gesture recognition application for Deaf and Mute based American Sign Language(ASL) with a strong emphasis on integration with tablets provided to store executives. The application is built to use JavaScript based TensorFlow and trained on ASL to identify gesture
Worked very closely with the client to design and architect this application and also to choose the right tools and technologies to ensure that the non-functional requirements would be met.

 - **Project:** Risk Prediction on Change Management Logs for a Global CPG leader
 - **Brief:** Led a team of data scientists in creating and productional zing Risk Prediction Model for various change requests across the global IT infrastructure- taken from 5 various data sources. Used Impala and Hive for data extraction. Used SMOTE (imbalanced classification) and CART for predictions.

 - **Project:** Architecting and Designing a CRM Solution between MTNL and Aksh
 - **Brief:** Acted as the Solution Architect for building a CRM solution integrating MTNL NOC and Aksh NOC. This was a large-scale project covering the entire scope of manufacturing processes from Product Conceptualization through Production Processes, Inventory, Sales and Invoicing, Point of Sale and Dispatch. Activities involved Architecture and Design of the modules, Software Evaluation and Selection, Development Infrastructure Setup, Training of Team Members, Streamlining of development processes, Setup of Build Management/Version Control and Bug Tracking, and Development as well
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