# Ashok Kumar

## Data Scientist (Specialist)

## Personal Info

**Address**
Jodhpur, India

**Phone**
+91-9660402461

**E-mail**
delhiiitian@gmail.com

**Social**
https://linkedin.com/in/delhiiitian
https://delhiiitian.com

## Resume Summary

Innovative data scientist with 4 years of experience using machine learning to deliver impactful results. Strong foundation in big data analysis, statistical modeling, and predictive analytics. Proficient with Python, R, and cloud platforms (GCP/Azure). Experience in diverse areas like computer vision, time series forecasting, and process optimization. Strong understanding of model deployment and its challenges. I seek collaborative global data science projects where I can use my skills to solve real-world problems. Eager to drive innovation and achieve measurable results.

## Education

### University Of San Diego
Masters in Cybersecurity Engineering

### IISc Bangalore
Masters in Product Design and Manufacturing

### IIT Delhi
Bachelors in Textile Technology

## Skills

| Skill | Rating |
|---|---|
| Machine Learning | ●●●●● Excellent |
| Python | ●●●●○ Good |
| Data Analytics | ●●●○○ Good |
| Data Science | ●●●○○ Good |
| Azure/DevOps/CICD | ●●●○○ Good |
| SQL Language | ●●●○○ Good |
| Pyspark | ●●●○○ Excellent |
| API | ●●●○○ Good |
| Fusion 360 (CAD) | ●●●○○ Good |
| Digital Twin | ●●●○○ Good |
| IoT/Microcontrollers | ●●●○○ Good |
| GCP | ●●○○○ Average |
| C++ | ●●○○○ Need Improvement |

## Work Experience

**2020-Aug to 2022-Dec**

### Data Scientist (2.4 Yrs)
Data and Intelligence Group (Mindtree LTD)

- Developed active learning for model training and data labelling
- **Jaguar and Landrover** – Consumer data analytics. **Achieved 6% lead conversion** utilizing logit model. Managing **ML Model Pipelines** using **GCP Matillion.** Managing **SVCRM** tables with **big query.** Code migration from **R to Python**. **Customer churn prediction** using survival models
- **P&G** – Customer sales data analysis and building recommendation engine. Awarded for best delivery project
- POC – Process optimizing using **Linear/Non-Linear programming** (Staff Scheduling, Supply Chain)
- POC - Benchmarking ML Tools and Platforms (Samsung sds, Knime, H2O, Azureml, datarobot).

#### Tools Used
- *Technology/Platform* : Python, R, GCP, Matillion, SVCRM, Brightics-AI (Samsung), KNIME, Pyspark-ML, Azure ML, Vector-AI
- *Libraries* : Pyomo, Gekko, Gurobi, Excel Solver, Scikit-Learn

## Languages

| Language | Rating |
|---|---|
| Hindi | ●●●●○ Native |
| English | ●●●●○ Good |

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## Work Experience

### Data Scientist (specialist) – Edge Analytics (1.8 Yrs)
iNxT (Ltimindtree Ltd)

- **L&T Construction (MAHSR)** – Computer vision-based production factory monitoring to produce production insights
Setting on prem servers and inference pipelines.
Improved production cycle and bottleneck steps
- **L&T Heavy Engineering** - In house Design and Developing laser based portable **3d profiling** device.
Integrated geometry-based defect monitoring for **weld defects**. Reduced NDT by 4 hrs
- POC – Contact pattern defect classification using object detection models.
Proposed **Laser 3d profile creation** for **NDT**
- **Ltimindtree** - Smart Parking (Smart Spaces Product) solution using **ANPR** and **QR** to monitor ingress/egress.
**Time Series Forecasting** for Ltimindtree **ESG** reporting
- PoC - **Navistar** - **Big data analysis** on vehicle OBD sensor data
Providing insights for vehicle segments, age, driver profile
- POC - **AVIS** – Car dent detection using segmentation models
**Azure Digital Twin** generation for Realtime monitoring rented vehicle and dent changes.
- POC - GE Healthcare – **Machine Log Analytics.**
**GEN AI** based logs analysis and troubleshooting.
- POC - **Structural Health Monitoring** using accelerometer data
**RUL** and predictive maintenance
- **Synthetic data generation** for back testing anomaly detection models

#### Tools Utilized
- *Hardware* : Nvidia Jetson Nano/Xavier, Raspberrypi 4b, Intel depth sense d435i, Line Laser, Lucid Vision Industrial Camera, Rapid Prototyping (3d Printer), Arduino, ADXL345
- *Technology/Platform* : Python, C++, Arm64/32, Matlab, Free Cad, Creality slicer/Cura, Label Studio, QT Creator, Paraview
- *Libraries* : Tensorflow, Pytorch, YoloV8, openvino, Opencv, GAN, Style transfer, SDV, QT6, Fast API, Streamlit,, Flask

## Career Break

### Self Development

- **Data Science Blog** – Writing blogs to cover Data Science and Machine Learning concepts [HyperEscape](#)
- **Laser Scanner** – Developing android based 3D laser scanner and profiler.  Modular attachment for mobile phones
- **GenAI Raspberrypi Assistant:** Voice command and assistant using Google AI Studio Api (work in progress).

#### Tools Utilized
- *Hardware* : Raspberrypi 4b, Line Laser, Rapid Prototyping (3d Printer), Creality Ender V3
- *Technology/Platform* : Android, Jekyll, Github, AR/VR, Ruby, Kotlin, Google Analytics, SEO, Google Adsense

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| C++ | ●●○○○ | Need Improvement |

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## Patents

**2024**

**A handheld device for detecting weld defects and a method thereof**

USPTO : 18/800488 (filed August 12, 2024)
IPO : 202421024373 (filed March 27, 2024)

## Awards

**2021**

**Certification of Appreciation**
Gracias Award
For delivering in short span of time

**2023**

**Shooting Star**
iWin Star Award
For dedication in Connected Universe Group

## Certifications

Databricks Foundations Partner Training, AZ-900, Intel Edge AI Certification, iLead (internal), AI-050 (badge)

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