

# Ashok Kumar

Data Scientist (Specialist)



## 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



## Work Experience

### 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, Vertex-AI
- *Libraries* : Pyomo, Gekko, Gurobi, Excel Solver, Scikit-Learn



## Personal Info

Address

India

E-mail

delhiitian@gmail.com

Social

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<https://robo.run.place>



## Skills

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



## Languages

Hindi



Native

English



Good

2020-Aug  
to  
2022-Dec



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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, opencvino, Opencv, GAN, Style transfer, SDV, QT6, Fast API, Streamlit,, Flask



## Career Break

### Self Development

- **Agentic Company** – Developing **LLM** based engineers to support for any task.
- **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



## Personal Info

### Address

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### Phone

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## Skills

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



## Languages

Hindi	●●●●●●	Native
English	●●●●●●	Good



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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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## Cover Letter

### Dear Recruiter

I am writing to express my keen interest in the open position available, as advertised. As an Engineer and a passionate product designer, I possess a unique ability to comprehend diverse domains, allowing me to bridge gaps and create innovative solutions. My primary focus is on developing solutions that have a positive impact on society, and I am excited about the opportunity to contribute my skills to your team.

Throughout my career, I have demonstrated a proactive approach to learning new technologies and methodologies. This adaptability has empowered me to successfully navigate through various domains, including AI, Biotechnology, Mechanical engineering, Civil, Chemical engineering, Agriculture, Security and Penetration testing, and Textiles. This broad exposure has equipped me with a holistic understanding, enabling me to identify and address challenges effectively.

I am not only a problem-solver but also a capable team leader, capable of managing diverse groups of individuals. I am comfortable tackling complex problems that I believe are solvable, and I thrive in dynamic and challenging environments. I strongly believe that there are numerous untapped opportunities in the industry, and I am eager to contribute my skills and knowledge to drive positive change.

If our visions align, I am enthusiastic about the prospect of discussing how my expertise can complement your team's objectives. I am confident that my diverse background and commitment to innovation make me a valuable candidate for job.

Thank you for considering my application. I look forward to the opportunity to discuss how I can contribute to the success of your team.

Yours Sincerely,

*Ashok Kumar*



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