Shivam Kotwalia

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₽ PROFILE

~8 years of experience in architecting and scaling data-intensive solutions by leveraging advanced machine learning algorithms and big data technologies. Managing key stakeholders & collaborating with CXOs to deliver innovative, high-impact solutions that use advance analytics techniques to drive business value and functional excellence. Lead a team of brilliant data scientists and engineers who are experts in deploying cutting-edge algorithms and systems to deliver tangible results

₱ PROFESSIONAL EXPERIENCE

Reels Analytics Solution Manager | Strategy & Ops

05/2021 - present | India

Instagram &

Reported to "Head of Partnerships" and led a team responsible for all thing analytics Reels in India

- Responsible for vernacular development of "Reels in Bharat", by building a market-fit model to find the apt target group(TG), launching & measuring engaging features (AR effects, music playlists, etc.) in the creator ecosystem
- Using **stack ranked model** designed an execution grid to grow the Creator & Music Partnerships book of business by **10% Y-o-Y**, which generated an incremental **30% lift in IG Reels play**
- Architected the data-intensive user journey for IG's biggest creator education program [BOI] *⋄* with **500K** *⋄* + *registrations* & driving meaningful acquisition by targeted scaled in-app promotion with a 7% end funnel conversion rate
- Institutionalized the "Influencer Recommendation Engine" which brought brands closer to 10K+ small tier 2-3 city best creators, generating a 5% stat-sig lift in BLS (brand lift study)
- Implemented program *performance evaluation model*, for measuring the efficiency of the marketing campaigns, spend (across funded programs) & increased 12% *dollar efficiency* Y-o-Y

Lead Data Scientist | Digital Ops

07/2018 - 04/2021 | India

McKinsey & Company ∅

Led the Analytics wing of the Procurement division at "D&A McKinsey Solutions ∂"

Document Intelligence

(Lead AI Architect & Delivery Head)

- Used computer vision (object detection, document layout, OCR) & NLP (entity recognition, smart search, QnA) models to develop the automated legal contract (document) ingestion system, which returns key KPIs and important metrics, further mapping them with saving opportunities
- **\$7M+ quarterly savings** for a giant mining equipment manufacturer, by identifying spend leakages (payment penalty, material quality assurance ...) in procurement & vending contracts
- Further designed a browser-based scalable front-end for a self-serve model, within a year of operation on-boarded 13+ new client logos with 70+ engagements

Electronic Costing

(Product Manager & Tech Lead)

- Developed an electronic PCB scanning system using a complex object detection model to identify components with high precision and further OCR the components for technical dimensions. Generating an "all bottoms-up electronics analysis" for optimizing electronics cost even at the smallest capacitor level
- Reduced the product teardown analysis by 30%, and within a **span of 2 weeks**, **saved \$3M+ procurement spend** by should-cost analysis for Taiwan-based electronic giant.

Spend Intelligence

(Lead ML & Deployment Engq)

- Designed a **spend cube analysis model**, which analyses spend data and helps clients work on hidden cost-saving opportunities. Created intensive **data pipelines** to structure data, using **ML model categorized spend data**, and produced detailed analyses to identify opportunities for technical and commercial improvements.
- Reduced quality control process by ~30% by introducing a statistical pricing module to validate the spend data flowing in and finding anomalies in price & supplier inconsistency using local outlier

• Designed the covid procurement guide which helped achieve supply chain resilience to quickly detect, respond to, and recover from disruptions

Software Costing (ML. Engg)

- Designed a multi-headed ML classifier to disintegrate software code into its individual components or features & build a pricing model to estimate the cost of each feature based on the resources and labor. Helping firms quickly & accurately determine the theoretical cost of developing or acquiring a piece of software.
- Helped a Telecom client **decrease the vendor cost by 12%** for developing the web e-commerce checkout, by identifying opportunities to reduce or optimize the cost of the software

Senior Data Scientist

07/2015 - 06/2018 | India

Nagarro Inc. *⊘*

Founding member of CoE, responsible for infra setup & competency building

Python

Numpy, Pandas

- Created an automated rail-cart defect inspection system, built on a hierarchy of convolutional neural network classifiers. Detected faults in cargo carriers for a US-based logistic firm & saving ~150 manual hours per day
- Implemented a watermark detection model over uploaded images, while synthetically preparing the **data** and avoiding copyrighting infringement for a real-estate client

SKILLS

Machine Learning

Clustering, Regression,

SQL

Classification

Computer Vision

Classification, Object Detection Presto, HIVE

Visualisation

Tableau

Agile in ML/DS

EDUCATION

Bachelor of Technology, Electronics & Communication

2011 - 2015

Rajasthan University

CERTIFICATES

- TensorFlow Contributor ≥
- Red Hat Certificate of Expertise in Directory Services and Authentication *∂*
- Microsoft Certified Professional

- Red Hat Certified Virtualization Administrator *∂*
- Red Hat Certified System Administrator Ø