

# Nikhil Shrimali

Address: 3-TA-30, Jawahar Nagar, Jaipur

Email: [nshrimali21@gmail.com](mailto:nshrimali21@gmail.com) | Telephone: +91-7506600714

TL;DR - <https://nikshrimali.github.io/portfolio/>

## **PERSONAL STATEMENT**

A hard-working, knowledgeable and target-oriented techno-functional ML Engineer. Adept at collecting, analyzing, and interpreting large datasets, developing new forecasting models, and performing data management tasks. Possessing an extensive analytical skills, strong attention to detail, and a significant ability to work in team environments,

Skilled in consulting, business analysis, pre-sales and agile delivery methodologies. Driven to succeed; a valuable addition to a forward-thinking company with strong opportunities for progression.

## **KEY ACHIEVEMENTS**

### **10FA India Pvt Ltd:**

- Finalist of Intra-Organization of Hackathon for Information retrieval project
- Winner of Bot-a Thon for converting ETL tasks using IBM SPSS to a Cloud based solution and Power-BI

### **TechSutra:**

- Course instructor for AI/ML weekend classroom training batches
- AI-101 Bootcamps for Colleges

### **Capgemini:**

- Selected as SPOC for implementation of automation projects at client side at Utrecht, Netherlands

### **TAO Automation:**

- Successfully Implemented invoice processing solution twice using advanced techniques for Intelligent Automation Solution. (Intelligent OCR ABBYY + Machine Learning) as team lead

## **EMPLOYMENT:**

| Organization  | Duration               | Role                       |
|---|------------------------|----------------------------|
| 10FA India Pvt Ltd ( former Prudential Global Services) | April 2019 – June 2020 | Analyst (ML Engineer)      |
| TAO Automation Pvt Ltd                                  | May 2018 – Apr 2019    | Associate Consultant(Tech) |
| Capgemini   | Oct 2015 – Apr 2018    | Associate Consultant       |

## **Projects Undertaken**

### **Extensive Computer Vision – Internship Project**

GitHub link - [https://github.com/nikshrimali/TSAl\\_EVA](https://github.com/nikshrimali/TSAl_EVA)

Technology: Deep learning-Pytorch, CNN, OpenCV

- Image Augmentations using In-build transformations, Albumentations (Cutouts, Gaussian Noise, Elastic Distortions)
- Extensive analysis on different architectures – Resnet18, Resnet34, Inception

- Studying the effects of Normal BatchNorm, GhostBatchNorm
- Applying different regularizations techniques like L1, L2, Dropouts
- Tuning model using Receptive Field calculations
- Calculating of Optimal Learning Rate using Cyclic LR methods
- Performance analysis using GradCam
- Modularization of Code into small and reusable components
- Performance metrics and management using Tensorboard.

## PEP Identification

**Client:** - Financial Crime and Prevention team

**Technology:** Python, ML-Ops(Azure), GIT, Power BI, HuggingFace(API), Pytorch

- Requirement gathering, creating process flow on MS-Visio and getting stakeholder's approval
- Data crawling and retrieval from google news searches for keywords using beautiful soup
- Data cleanup, Tokenization, POS Tagging using NLTK
- Multi-class classification of articles scraped
- Exposing the rest-endpoint using FLASK
- Deploying Docker containers on Azure instance after passing test cases
- Dashboarding using Power-BI
- ML-OPS practices(CI-CD, GIT, Jira)
- Demonstration of solution to different teams for creating more opportunities
- Phase 2 POC – Text summarization of news articles using attention models - T5 HuggingFace

## Analysis and forecasting of Policy Sales data

**Client** – Fund Services Team

**Technology:** Python, ML-Ops(Azure), GIT, Power BI

- Requirement gathering, creating process flow on MS-Visio and getting stakeholder's approval
- Retrieval of historical data from SQL Server
- Analysing the trend, seasonality
- Univariate time series forecasting using Winter-Holts model, Fb-prophet
- Dashboarding of output using Power-BI
- Exposing the rest-endpoint using FLASK
- Deploying Docker containers on Azure instance after passing test cases

## EDUCATION:

| Course                                 | Duration             | Organization   |
|--|----------------------|--|
| B.TECH: Computer Science & Engineering | Aug 2011 – June 2015 | Arya Institute of Engineering and Technology, Jaipur |
| HSC                                    | 2011                 | Maheshwari Public School, Jaipur                     |
| SSC                                    | 2009                 | Maheshwari Public School, Jaipur                     |

## Certifications:

- Machine Learning – Stanford University (Coursera)
- Agile Methodology

- Microsoft Azure
- Microsoft Power BI
- Design Thinking
- Microsoft Technical Associate - .Net
- Microsoft Certified Professional - .Net

### **Initiatives:**

- Blood Donation Drive conducted successfully with KEM hospital.
- Stem Cell Donation Drive conducted with DATRI- NGO
- School Adoption Program
- Disabled Friendly workspace
- Emergency Response Team
- Fire Warden

### **Personal Interests**

- Gardening
- Trekking,
- Backpacking
- Reading