Nikhil Shrimali

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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 retrival project
- Winner of Bot-a Thon for converting ETL tasks using IBM SPSS to a Cloud based solution and Power-BI

TechSutra:
- Course intructor 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 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
The School of AI	June 2020 - Present	Advanced Vison Intern
Techsutra	Oct 2019 – Present	Course Instructor
10FA India Pvt Ltd (M&G Plc)	April 2019 – June 2020	Analyst (ML Engineer)
TAO Automation Pvt Ltd	May 2018 – Apr 2019	Assosciate Consultant(Tech)
Capgemini	Oct 2015 – Apr 2018	Assosciate Consultant

Projects Undertaken

Extensive Computer Vision – Internship Project

GitHub link - https://github.com/nikshrimali/TSAI_EVA

Technology: Deep learning-Pytorch, CNN, OpenCV

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

- Studying the effects of Normal BatchNorm, GhostBatchNorm
- Applying differnent 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 resuable components
- Performance metrics and management using Tensorboard.

PEP Idenfitication

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 retrival 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 oppurtunities
- 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
- Retrival 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 Engineeing and Technology, Jaipur
HSC	2011	Maheshwari Public School, Jaipur
SSC	2009	Maheshwari Public School, Jaipur

Certifications:

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

- Mircosoft Azure
- Microsoft Power BI
- Design Thinking
- Microsoft Techical Assosciate - .Net
- Microsoft Certified Professional - .Net

Initiatives:

- Blood Donation Drive conducted succesfully 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