Memona Sultan
Software Engineer

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EXECUTIVE SUMMARY

Technology enthusiast, self-motivated, hard worker and a very quick learner. Always eager to learn new technologies. Strong believer in project delivery and attaining success in challenging tasks with a passion to explore the new horizons of modern days Technologies & Frameworks.

WORK EXPERIENCE

❖ **Machine Learning Engineer at Storewide Active Intelligence**
  October 2020 - Present (Full Time Job)
  - Working in multiple products based on theft detection, shopper counter, product interaction detection, activity recognition, person re-Identification

❖ **Software Engineer at Xavor Corporation**
  July 2019 - October 2020 (Full Time Job)
  • Worked in multiple IoT based products, Responsible for multiple POCs and proposals
  • Worked in multiple projects & products. Apart from this I was also responsible for requirement gathering and making sure we follow best practices according to projects.

❖ **FullStack Developer at Depository Works**
  October 2018 – June 2019 (Internship)
  • Involved in Product Development, Product Enhancement, Client dealing

Projects

Hand Gestures Recognition (10 classes)
classifies gestures with 91% accuracy using AlexNet, 95% accuracy using VGG16

Animal Classification via Transfer Learning
Applied transfer learning and fine tuning using VGG-16 on publicly available famous kaggle dataset (cats vs d dogs) achieved 98% accuracy

ResNet Implementation
Resnet implementation from scratch in keras

Face Track
Designed a custom solution for tracking different faces with consistent ID assignment in stream using dlib tracker and database

Counter for Shoppers/Passers by
Designed a solution to count total persons throughout the day who actually interacts with Aisle/shop and who doesn't.
Used deepsort for persons' tracking

SKILLS

Computer Vision:
Motion Detection, Edge Detection, Image Processing, Object Tracking

Machine Learning: Classification, Regression, SVM with all kernals, Neural Networks, Clustering, KNN, Siamese Network

Deep Learning:
Classification via CNNs, AlexNet, VGG16, ResNet, inceptionNet, Transfer Learning, Fine Tuning

Object Detection:
YoloV3, Yolov5

Object Tracking:
SORT, DeepSORT

Object Segmentation:
U-Net

Python: Web development via Django/Flask frameworks, Scripting, Web Scrapping

Node: Web development via ReactJS, Express, Handlebars, Redux

.Net Core: REST APIs development, MVC, Web development

Sharepoint: Custom webparts development via SPFx Framework

SQL: SQL Server / Oracle/ MySql / PostgreSQL

NoSQL: Firebase/Azure CosmosDb, MongoDb

LIBRARIES
PyTorch, Tensorflow, Keras, OpenCV, Scikit-Learn, Pillow, Numpy, Pandas

EDUCATION

BS Software Engineering (2015 - 2019)
CGPA: 3.59
Punjab University College of Information Technology

Intermediate in Computer Science (2013 – 2015)
Percentage: 89%
Punjab Group of Colleges (Lahore Board)

Matriculation (Humanities Group) (2012 – 2013)
Percentage: 92% (Silver Medalist)
Najaf Ideal High School (Lahore Board)

AWARDS & ACHIEVEMENTS

➢ Silver Medalist (Second Position Holder in Lahore Board in Matriculation) - 2013
➢ Winner of "Clash of Coders" in SoftExpo'17 at PUCIT
➢ First Runner up in ICPC SOFTCOM'18 at GIKI
➢ Winner of Speed Programming in UCP TAAKRA'18
➢ Runner up of "CATCH A BUG " at NUCES LAHORE in GEEKWEEK'18

INTERESTS

Reading, Exploring new technologies, Internet browsing