

Hareem Fatima

Data Science Consultant

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TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, PHP
- **Technologies and Frameworks:** Pandas, Scikit-learn, Tensorflow, Keras, OpenCV, GCP, AWS
- **Machine Learning / Data Science:** Computer Vision, NLP, Recommender Systems, Deep Learning (CNN, RNN), Time Series Analysis, Data Analytics, Predictive modeling
- **Data Skills:** PowerBI, Tableau, ETL, Statistics

ACHIVEMENTS

Third Place Winner 10/2019
Dubai Customs AI Hackathon - AI for HS Code prediction

Awarded Special Mention 06/2019
Show&Tech at in5

First Place Winner 05/2019
UOWD Innovation Fair BlockSupplAI - Blockchain and AI

Third Place Winner 04/2019
7th Undergraduate Research Competition Abu Dhabi

Third Place Winner 04/2019
RTA Y4PT Hackathon- application to detect road faults using computer vision

EDUCATION

Bachelor of Computer Science
University of Wollongong in Dubai
GPA 3.91/4.0
08/2015 - 06/2019

PROJECTS

Preventing the circulation of counterfeit or expired medicines in the supply chain - *Blockchain and AI*

Multi-class tweet classification system - *ML classification algorithms*

Legal Document Classification - *Natural Language Processing (NLP)*

Enhancing E-commerce customer experience by implementing virtual assistant - *Recommender System and Sentiment Analysis*

LANGUAGES

Fluent English IELTS Score: 8.5
Fluent Urdu

WORK EXPERIENCE

06/2021 - present

Senior Data Scientist / Machine Learning Engineer
AIConsulting.ae

Face Swap Application Pipeline

- Led the development of an end-to-end pipeline for a FaceSwap project integrating GFGAN, YOLO, GHOST, Image Enhancer, and head pose matching
- Implemented detection and extraction of facial expressions in real time, improved image quality and developed a custom head pose matching solution.
- Refined the swapped faces to enhance realism and minimize distortions in the output avatar image
- Gathered client feedback, compared various iterations to see which performed better and carried out improvements

Vehicle Damage Detection System

- Led a remote team of 3 developers in the design and development of the vehicle damage detection system
- Directed algorithm selection, data annotation and classification
- Implemented object detection and image segmentation using Convolutional Neural Network (CNN) and Recurrent Neural Network (RNNs)
- Evaluated the system performance and improved it iteratively as per client feedback
- Tested the system on real-time images and achieved accuracy of 81%

02/2022 - 05/2022

Data Science Consultant
RealAdvisor

Spain Property Price Valuation Model

- Acquired data from PostgreSQL database and conducted data preprocessing (encoding, imputation and feature scaling)
- Trained XGBoost model and tuned its hyperparameters to predict property prices with 9.39% Mean Absolute Percentage Error (MAPE)
- Deployed the model on Google Cloud Platform (GCP) and integrated it with the company website

04/2020 - 05/2021

Software Developer
LoveThatDesign

Complete CRM for an interior design platform

- Designed relational database schema for the CRM system
- Developed the backend of software in PHP Laravel Framework.
- Created REST APIs for frontend-backend communication.
- Tested APIs with Postman for functionality.
- Collaborated on Bitbucket for version control.
- Managed tasks on Jira for project organization.
- Implemented Export Engine for custom reports using PHPSpreadsheet.

05/2019 - 06/2020

Research Assistant
Zayed University

TalentTank - Blockchain based educational credentials management system

- Conducted Requirement Analysis and Design Documentation (UI and Architecture)
- Designed Data Flow and Use Cases
- Developed User Interfaces for each entity with API integration

06/2019 - 10/2019

Research Associate
University of Wollongong in Dubai
Student Academic Behavior Prediction

- Collaborated with research professor to design and document solution architecture
- Defined computational semantics of Student Progression and identified predictive model inputs
- Cleaned collected data and trained models
- Validated and tested accuracy of predictive models, iteratively improving as needed