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MUDASSAR HAYAT

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EDUCATION

Information Technology University	Lahore, Pakistan	Aug 2022 – Continue

- **Masters in Data Science,**
- **Coursework:** Statistical and Mathematical Methods for Data Analysis, Tools and Techniques for Data Science, Machine Learning, Deep Learning, Big Data Analytics, Natural Language Processing

Govt M.A.O Graduate College, Lahore	Lahore, Pakistan	Sep 2017 – Feb 2021

- **Bachelor's of Information Technology, CGPA: 3.21/4**,
- **Coursework:** Programming Fundamentals, Object Oriented Programming, Data Structure and Algorithms Statistics, Database Systems, Computer Networks, Project Management

EMPLOYMENT

Associate Engineer	Abletech Solutions	Oct 2021 – Present

- Designed and implemented Python scripts for web scraping and web automation, utilizing Request, BeautifulSoup, Selenium, and Scrapy to extract and manipulate data from various web sources.
- Conducted data cleansing using NumPy and Pandas to ensure accuracy and consistency of data sets.
- Developed and implemented applied machine learning algorithms using Sci-kit Learn to identify patterns and trends in data.

Master Trainer	Hunnar Tech	May 2022 - Present

- Developed and delivered training sessions on Python programming, web scraping, web automation, and data annotation courses.
- Created comprehensive lesson plans and learning materials to facilitate student understanding and engagement.
- Provided individualized support and feedback to ensure student success.
- Monitored student progress and adjusted teaching strategies as needed to maximize learning outcomes.

LANGUAGES AND TECHNOLOGIES

- Python, No SQL, PostgreSQL, MySQL, Cassandra ,Git, GitHub, Scikit-Learn, TensorFlow
- Request, BeautifulSoup, Selenium, Scrapy, Numpy, Pandaas, Matplotlib, Seaborn, Docker, Data Annotation

TECHNICAL EXPERIENCE

Research Area

- My research interest is in the development of a deep learning-based pedestrian detection system that can detect pedestrians and identify anomalous behavior in foggy weather conditions. My focus is on leveraging unsupervised learning methods to identify patterns in pedestrian movements and flag any deviations from normal behavior. This research has practical applications in transportation, security, and surveillance. I plan to train the system on large datasets of annotated pedestrian images captured in foggy conditions, and evaluate its practical viability in real-world scenarios.

Personal Projects

- **Face Recognition:** Developed a face recognition-based attendance system using deep learning techniques. This project involved training a deep neural network to recognize human faces and then integrating it with an attendance management system. The system was designed to provide a convenient and efficient way to keep track of employee attendance in real time.
- **E-commerce Dataset Analysis and Machine Learning Model Selection:** I performed exploratory data analysis (EDA) on a Kaggle e-commerce dataset and used the insights gained from EDA for feature selection and data preprocessing. Next, I trained seven different machine learning models on default parameters and conducted hyperparameter tuning to identify the best model.
- **Web Scraping and Automation:** Completed several web scraping projects, including Amazon.com and eBay.com. These projects involved using web scraping tools and techniques to extract large amounts of data from these websites. In addition, I have also implemented automation scripts for Instagram and LinkedIn using Selenium, allowing for the efficient extraction and manipulation of data.

CERTIFICATIONS

- **Artificial Intelligence Course** (PIAIC)
- **AWS Machine Learning Course** (Udacity)
- **Computer Vision Course** (UET Kics)
- **Natural Language Processing Course** (Linkedin)
- **Machine Learning Course** (Kaggle)