MANSOOR AHMAD

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PROFESSIONAL EXPERIENCE

- **Python & Machine Learning Developer** AUG 2019 – PRESENT
  AI XPRT, Islamabad, Pakistan
  As a backend developer my primary role is to work on building algorithms and implement machine learning models to automating auditing and compliance rules. Successfully delivered two projects so far to top-tier global companies. Learned professional and corporate practices along with software development life cycle and challenges.

- **Intern at Instrumentation Control and Computer Complex** JULY 2018 – AUG 2018
  Islamabad, Pakistan
  Build Image Processing Application using Microsoft Visual Studio, OpenCV and C-Sharp for image editing and enhancement.

- **Intern at Pakistan Institute of Engineering & Applied Sciences** JUN 2017 – JULY 2017
  Islamabad, Pakistan
  Worked on Cancer Detection task in Pattern Recognition Lab at DCIS, PIEAS, and applied Machine Learning Techniques such as Random Forest, SVM, CNN in MATLAB.

EDUCATION

- **Bachelor's in Computer & Information Science, PIEAS** *SEP 2015 – JUL 2019*
  Islamabad, Pakistan
  Thesis: *"Automatic Supraspinatus Muscle Segmentation from MRI Images"*
  CGPA: 3.32/4.00

CERTIFICATES

- Coursera: "Applied Data Science Capstone"
  By IBM: https://coursera.org/share/b872984e74d65b428ed8193b9fd2045f
- Coursera: "Python for AI and Data Science"
  By IBM: https://coursera.org/share/e3e76eb4c102a74653b52712bd8c9110

TECHNICAL SKILLS

- Object Oriented Programming & Data Structures in Python
- Debugging in Python
- Agile Software Development on Linux using Git
- Using Dockers for Software and Machine Learning Models Deployment
- Multiprocessing and Multithreading in Python
- MongoDB/MySQL/Oracle Database
- Machine Learning and Deep Learning Programming using Python libraries Scikit-Learn, Torch, Keras, NumPy, Pandas, Matplotlib, etc.
- Computer Vision using Python - OpenCV Library and MATLAB

PROJECTS

- App & Voice Controlled Car Based on Arduino Nano
  - Car was built with Arduino attached. The car could be controlled using hand-gesture, keyboard, and voice commands.

- 2D Solar System Visualization Application
  - An application was built in C++ and GUI for visualization of planets size, location, and motion around Sun.

- Local Search Engine
  - A corpus was stored, and user query was taken as input. Using NLTK python library the query and documents were parsed and preprocessed. Using python and machine learning model, SVM, the most relevant documents were picked.

- Protein-Protein Interaction Prediction
  - A Siamese-Like Convolution Neural Network was implemented using Torch and Python. Protein data was downloaded from UniProt and the model was trained on 2000 protein pairs while tested on 10, 000 protein pairs with 4 layers of CNN.

- Employee Record Storing and Searching Website
  - A website in .Net Framework and SQL Database was build using Visual Basic language for the purpose of keeping the personal information of employee and retrieving it based on certain queries.