Javed Ahmad

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Scheme Khanewal, Pakistan (58150)

Research Interests

Signal Processing, Machine Learning, Deep Learning, Intelligent Machine Systems, Vibration Signal Analysis.

Skills

- **Python**
    - Scikitlearn
    - Pandas
    - Pytorch,
    - Tensor Flow
    - Keras
- **Machine Learning**
    - Discriminative Models (KNN, Logistic Regression, LDA, SVM)
    - Dimensionality Reduction and PCA
    - Feature Selections
    - Anomaly Detection
- **Deep Learning and Computer Vision**
    - ANNs, CNNs, LSTM, RNNs
    - Generative Adversarial Networks(GANs)
    - YOLO, SSD , ResNet
- MATLAB, C++, C#
- Convex Optimization
- Mathematical Modeling of Systems
- National Instruments (Lab-View, Proteus)
- Project Management.

Education

2017-2019   **Master of Science in Electrical Engineering**
Information Technology University (ITU), Lahore, **Pakistan**
Subjects: Signal Processing, Machine Learning, and Control Systems
Thesis: Fault Diagnostics and Prognostics of Mechanical Systems
Supervisor: Dr. Ali Ahmed

2013-2017   **Bachelor of Science in Electrical Engineering**
University of Central Punjab (UCP), Lahore, Pakistan
Majors: Embedded systems, Control systems, and Communication
Final Year Project: Design and implementation of Octocopter
Supervisor: Dr. Ali Nasir
Cgpa: 3.50/4

2008-2011	**Diploma of Associate Engineer (DAE) in Electronics**
	SUPARCO Institute of Technical Training (SITT) Karachi, **Pakistan**
	Subjects: Applied Physics, Applied Mathematics, and Electronics
	Score: 2808/3400 (82.5 %)

Work Experience

Spring -2019	**Teaching Assistant** of Machine Learning at ITU, **Pakistan**
Sep 2017	**Graduate Fellow** at ITU, **Pakistan**
Oct 2011 – Oct 2017	**Associate Engineer** at SUPARCO (Satellite Control Facility) Lahore, **Pakistan**
	Job Description: I was responsible for telemetry monitoring, trend analysis of all subsystems and control activities of communication satellite

Awards

Aug 2017	**Fellowship:** I was awarded graduate fellowship by the Department of Electrical Engineering, Information Technology University, Lahore, **Pakistan**
May 2017	**Gold Medal:** My final year project (Octocopter) was declared the best project of batch and awarded gold medal due to innovative & excellent implementation at University of Central Punjab, Lahore, **Pakistan**
Nov 2014	Winner of best design category (soccer ball playing robot) in Robo-Sprint competition at CASE University, Islamabad, **Pakistan**
Feb 2014	Winner of best innovative idea competition in an (Engineering Galla) event at UCP, Lahore, **Pakistan**

Social Contribution

Community Service (UCP VIS Program)

I campaigned to aware people about Akhuwat Clothes Bank (AKB) in Lahore, Pakistan and also collected 80 pairs of clothes to support AKB for needy people to eradicate poverty. This commendable service was limited to 10 days.

Languages

Urdu: Mother's tongue
English: Fluent
Chinese: Basic