

Zohaib Aftab

Data Scientist

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Pakistan

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Work: <https://zohaibdr.github.io/>

Summary

- Results-focused professional with 4+ years of experience in data analysis and algorithm development
- Passionate coder with deep knowledge of coding environments including Python and R
- Excellent communication skills with the ability to present complex insights to diverse audiences

Skills

Python (Pandas, Scikit-learn)
Microsoft Azure
Power-BI
Git
R
Matlab
Data visualization
Machine Learning
Advanced statistics
Hypothesis testing
Fault diagnosis
Predictive maintenance

Languages

English and French
[Fluent, C1 level]

Experience

Data Analytics and Statistical Modeling [2022-Present]

gained as Data Analyst at [42 Agency](#) [Part-time]

- Performed predictive modeling using machine learning to drive targeted media spending with improved marketing outcomes
- Collected and manipulated data from various processes and generated actionable insights for the management

Algorithm Development [2018-2022]

gained as Scientist at the National Center of Robotics and Automation (NCRA) Pakistan

- Implemented instrumentation and data collection experiments for assisted human walking systems
- Developed algorithms for automated gait analysis of disabled individuals achieving industry-best 95% accuracy

Cross-functional project management [2013-Present]

gained as Associate Professor, University of Central Punjab, Lahore

- Led interdisciplinary teams to administer grants amounting over US\$180,000 and developed industry-oriented electromechanical systems
- Delivered 2 products, 3 patents and several scientific communications

Selected projects

AI-powered fault diagnosis

- Goal: Gearbox fault detection from real vibration data
- Cleaned and analyzed raw data containing 2 million+ datapoints
- Implemented autoML pipeline in Python to classify faulty apparatus with 80% accuracy

	<p>Bank loan recovery model</p> <ul style="list-style-type: none"> • Goal: Decide the best strategy to recover bank loans • Performed advanced statistical analysis and hypothesis testing <p>Complete list of projects at https://zohaibdr.github.io</p>
	<p>Courses & Education</p> <p>Supervised Machine Learning: Regression and Classification <u>Issued</u> by Stanford online • DeepLearning.ai • 'Coursera 2022 Learnings: Feature engineering, model development, regularization.</p> <p>The essential elements of Predictive Analytics <u>Issued</u> by LinkedIn Learning 2022 Learnings: Data mining industry standards, Data construction</p> <p>Python Data Science Toolbox <u>Issued</u> by DataCamp 2022 Learnings: Data wrangling, Data visualization</p> <p>Masters • Université de Nantes • Nantes, France Automation, 2009</p> <p>Doctorate • Université Claude Bernard Lyon I • Lyon, France Control Engineering, 2012 Physics-informed simulations for bipedal robots</p>

