

# Zohaib Aftab

## Data Scientist

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

### Summary

- Data professional with 4+ years of experience in algorithm development
- Experienced coder with deep knowledge of coding environments like Python and R
- Skilled at translating technical jargon into easily digestible insights for any audience

### Skills

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

### Experience

**Data Analytics and Statistical Modeling** [2022-Present]  
as Data Analyst at [42 Agency](#) [Part-time]

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

**Algorithm Development** [2018-2022]  
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]  
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

### Languages

English and French  
[Fluent, C1 level]

### 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

**Bank loan recovery model**

- Goal: Decide the best strategy to recover bank loans

- Performed advanced statistical analysis and hypothesis testing

Complete list of projects at <https://zohaibdr.github.io>

## Courses & Education

Supervised Machine Learning: Regression and Classification

Issued by Stanford online • DeepLearning.ai • 'Coursera 2022

Learnings: Feature engineering, model development, regularization.

The essential elements of Predictive Analytics

Issued by LinkedIn Learning 2022

Learnings: Data mining industry standards, Data construction

Python Data Science Toolbox

Issued by DataCamp 2022

Learnings: Data wrangling, Data visualization

Masters • Université de Nantes • Nantes, France

Automation, 2009