

# Shawaiz Shah

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## Summary

I am driven by a zeal to employ advanced data science and AI solutions to address complex business challenges effectively. My focus is on supporting businesses across diverse domains in achieving their goals and driving success.

## Experience

### Data Scientist

#### WOW Tech Group

Apr 2021 - Present (2 years 10 months)

- Spearheading the creation of a state-of-the-art Conversational AI system, focusing on dynamic user interaction and personalizing user experience. Responsible for system design, research, ablation studies, and evaluations to benchmark technologies and tools.
- Executing deployment tactics in a local setting, embedding robust concurrency management within a modest HPC cluster and implementing control measures on low-end HPC cluster for optimal performance.
- Led the development of a demand forecasting system using the ARIMA+ algorithm, resulting in a 6% increase in revenue.
- Pioneered the creation of an advanced demand prediction model utilizing the ARIMA+ algorithm. Achieved a notable forecast accuracy, enabling growth planning through accurate forecasts of revenue, margin, and sales volume.
- Developed predictive models for temporal activity recognition, object detection, and image classification.
- Contributed to the design and implementation of real-time human biofeedback signal classification and vital sign detection application.
- Collaborated with cross-functional team to build and deploy cloud based AI prototypes, test and deploy.
- Teamed up with diverse groups to construct and implement cloud-native AI prototypes and data processing workflows employing Kubernetes and Kubeflow Pipelines.
- Conducted R&D on Computer Vision and signal processing systems using Machine Learning and Deep Learning.
- Engaged in research and development related to Computer Vision and signal processing, utilizing machine learning and deep learning.

### Technical Product Owner

#### WOW Tech Group

Aug 2022 - Feb 2023 (7 months)

- Tasked with the strategic planning and delivery of a software product roadmap, directly impacting approximately 10,000 daily active users.
- Collaborated with a cross-functional team of Product, Design, Development, and Quality Assurance to ensure that the product and feature implementation aligns with the needs and expectations of the customers.

### Data Science Master Thesis

#### WOW Tech Group

Aug 2020 - Mar 2021 (8 months)

- Trained and Optimized SOTA Vision Detection Models on custom datasets
- Implemented Explainable AI methodologies to enhance the interpretability of Deep Vision Detection Models, making comp

## Software Engineer

### Artory

May 2019 - Apr 2020 (1 year)

- Working with engineering team on software design and development
- Involved in DevOps tasks including writing unit/integration tests and code reviews
- Participated in sprint planning, grooming and review sessions
- Successfully performed a research spike and built a prototype for image search/retrieval using Reverse Search

## Software Engineer

### Lakson Business Solutions

Mar 2017 - Oct 2018 (1 year 8 months)

- Responsible for designing, developing and integrating software products and their data processing pipelines
- Assisted technical design process by analyzing business requirements, and facilitating technical feasibility analysis for feature-change request in collaboration with Business Analysis team

## Software Engineer

### Advance Telecom (AT)

Aug 2016 - Feb 2017 (7 months)

- Inaugurated a robust KPI reporting framework by fusing e-commerce platforms with Google Analytics and Facebook Pixel
- Facebook Pixel for monitoring product performance (impressions, interaction and conversion rates) and sales (GMV, NMV and Net-to-Value Conversion)

## Intern

### Pakistan International Airlines

May 2015 - Jul 2015 (3 months)

- Developed and deployed a Requisition and Complaint management system that was to be used within PTC facility

## Director Team Creative

### SZABIST

Aug 2013 - Mar 2015 (1 year 8 months)

- Recruited in ZABMUN-s Executive Council to lead Team Creative
- Collaborated with other teams and successfully organized ZABMUN VII conference, a four day Model United Nations conference which hosted 2000+ delegates

## Education

### Berlin University of Applied Sciences Berlin (BHT)

#### Masters, Data Sciences

2018 - 2022

Shaheed Zulfikar Ali Bhutto Institute of Science and Technology  
Bachelor of Science - BS, Computer Science, CGPA: 3.53  
2012 - 2016  
BS Computer Sciences

Aga Khan Higher Secondary School, Karachi  
Higher Secondary School Certificate, Pre-Engineering  
2010 - 2011  
Pre-Engineering - Higher Secondary School Certificate

## Licenses & Certifications

Registered Scrum Master- - Scrum Inc.  
RSM-4041082

Certified Scrum Product Owner® (CSPO®) - Scrum Alliance  
Issued Jun 2022 - Expires Jun 2024  
1599800

## Machine Learning · Data Analysis · Predictive Modelling · Data Visualization · Time-Series A

Machine Learning · Data Analysis · Statistical Computing · Data Visualization · Mathematical Modeling  
· Database Design · Project Management · Product Development · Research · SQL

## Honors & Awards

Chancellor's Honor Roll - SZABIST, Karachi  
Dec 2016

University Funded Scholarship - SZABIST, Karachi  
Received merit based scholarships for academic performance in semester Fall 2012, Spring 2013, Fall 2013, Spring 2015, Fall 2015

Runner Up IBA ProBattle Challenge - IBA ProBattle '16  
Apr 2016  
Runner up in web development challenge