

MOBEEN ANWAR

Computer Science / High Integrity Systems — Web Development, IoT & Data-Driven Systems

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[GitHub: mobeenanwardev-ui](https://github.com/mobeenanwardev-ui) | [Portfolio: mobeen.me](https://mobeen.me)

PROFESSIONAL SUMMARY

M.Sc. student in **High Integrity Systems** at Frankfurt University of Applied Sciences with a B.Sc. in Computer Science. Combines hands-on **WordPress and web development** experience with practical coursework in **data mining, IoT and smart sensor networks**. Co-author of **two published research papers** on IoT-based monitoring systems and CNN-based sentiment analysis. Comfortable working across the full stack — from embedded sensor firmware to cloud dashboards and machine learning pipelines. Structured, reliable, and quick to learn new tools and technologies.

EDUCATION

M.Sc. High Integrity Systems

September 2025 – Present

Frankfurt University of Applied Sciences, Frankfurt am Main, Germany

Completed coursework: Data Mining, Advanced IT Security, Advanced Testing Methods, Internet of Things, Smart Sensor and Network Systems, Simulation Methods

B.Sc. Computer Science — 81%

September 2019 – August 2023

Institute of Management Sciences, Peshawar, Pakistan

WORK EXPERIENCE

Senior WordPress Developer

April 2024 – April 2025

[iTechEra Solutions](#), Lithuania (Remote)

- Creating and managing professional, dynamic business WordPress websites end-to-end, from design to deployment.
- Optimizing website performance, structure and SEO for client projects.

Intermediate WordPress Developer

October 2023 – March 2024

[Soft IT Land](#), Lahore, Pakistan

- Collaborated with creative and development teams on the execution of client website ideas.

WordPress Developer

February 2023 – December 2023

[Orbitors IT Solution](#), Peshawar, Pakistan

- Optimized website and app performance using the latest WordPress technologies and plugins.

PROJECTS

Thread-Based Intelligent Indoor Environmental Monitoring System (SSNS)

- Co-developed a multi-tier IoT platform combining IEEE 802.15.4 OpenThread mesh networking, fog computing (Redis, CoAP), and a Spring Boot/MongoDB backend for real-time indoor air quality monitoring (CO₂, PM_{2.5}, TVOC, temperature, humidity).
- Built a multi-engine alert system combining deterministic safety thresholds, statistical heuristics, and an Isolation Forest machine-learning pipeline for anomaly detection, achieving a 77.3% true positive rate at 0.45% false positive rate.
- GitHub: [Thread-Iot-Environmental-Monitoring-System](#)

IoT-Based Solar Panel Monitoring and Recommendation System

- Built a prototype using Wemos D1 R2, voltage/current sensors and DHT22 to monitor solar panel performance in real time via Blynk Cloud, with automatic alerts for battery and temperature thresholds.
- Published as a peer-reviewed research paper (**see Publications section**).

Data Mining & Machine Learning Projects

- Titanic survival prediction: preprocessing, feature engineering, classification (Decision Trees, Random Forest, AdaBoost) with cross-validation and grid search tuning.

- Clustering and dimensionality reduction: K-Means with Elbow Method/Gap Statistic, PCA and t-SNE for visualisation.
- GitHub: [Data-Mining](#)

Machine Learning Roadmap (Self-Study Repository)

- Structured collection of notes and implementations covering core ML concepts, algorithms and evaluation techniques.
- GitHub: [Machine-Learning-Roadmap](#)

Freelance Web Development Portfolio

- Designed and delivered 60+ WordPress websites for clients across real estate, healthcare and small business sectors.
- Portfolio: [mobeen.me](#)

PUBLICATIONS

- M. Anwar, Mohammad, M. Anwar (Moneeba), S. Jan, "[Convolutional Neural Networks with FastText Word Embedding for Aspect-Based Sentiment Analysis of COVID-19 Vaccines](#)", Global Scientific Journal, Vol. 11, Issue 3, March 2023, ISSN 2320-9186.
- M. Raheel, M. Anwar, I. Ul Haq, "[An IoT Based Solar Panel Monitoring and Recommendation System Using Blynk Cloud](#)", Global Scientific Journal, Vol. 11, Issue 4, April 2023, ISSN 2320-9186.

RELEVANT SKILLS

Web Development	WordPress (theme customization, plugin management, performance optimization), HTML, CSS, JavaScript, PHP, React, Next.js
Data & ML	Data preprocessing, feature engineering, classification (Decision Trees, Random Forest, AdaBoost), clustering (K-Means), PCA/t-SNE, TF-IDF, word embeddings, model evaluation, CNNs
IoT & Embedded Systems	IEEE 802.15.4 / OpenThread mesh networking, CoAP, Nordic nRF52840, Zephyr RTOS, Wemos D1 R2, ESP8266, sensor integration (SCD41, SPS30, CCS811, DHT22, LM35)
Cloud & Backend	AWS (IAM, EC2, S3, VPC, CloudWatch), Azure, MongoDB, Redis, Spring Boot basics, Blynk Cloud
Testing & Security	Advanced software testing methods, test case design, PKI/TLS fundamentals, IT security principles
Tools & Reporting	Power BI, Excel, Git/GitHub, Word, PowerPoint
Languages	English (Fluent, C1), German (B1, university language course), Urdu (Native)

TRAINING & CERTIFICATIONS

- Cisco CCNA — Cisco Systems | January 2025 | Certified
- AWS Cloud Architect – Associate — Corvit Networks | February 2025 | Course completed
- Microsoft Azure Architect – Associate — Corvit Networks | March 2025 | Course completed
- Data Analysis with Python — IBM Developer Skills Network | January 2024 | Certified
- IELTS Academic, IDP IELTS Pakistan | Certified