

Shanker Lal Meghwar

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EDUCATION

University of Pécs

Bachelor of Science in Computer Science

Pécs, Hungary

Sep. 2023 – June 2026

- **Relevant Coursework:** Programming & Object-Oriented Programming (C, Java, Python), Linux, Spring Boot, Web Development, Database Management (SQL), Data Structures, Artificial Intelligence, Deep Learning.
- **BSc Thesis — Diabetes Prediction Using Machine Learning:** Developed ML models using Logistic Regression, Random Forest, and XGBoost; achieved AUC-ROC of 0.92 and Recall of 0.85 on clinical data.

EXPERIENCE

Data Science Intern

10Pearls

Remote

April 2026 – June 2026

- Developed an end-to-end machine learning pipeline to forecast 72-hour Air Quality Index (AQI) using Python, XGBoost, Random Forest, and Scikit-learn.
- Built automated data ingestion, feature engineering, and model retraining workflows using Pandas, GitHub Actions, and public weather and air quality APIs.
- Deployed a production-ready forecasting system using AWS S3, MongoDB Atlas, and Streamlit, enabling automated daily predictions and interactive visualization.

Embedded Systems & Automation Intern

Computing & Education Technology Centre, University of Pécs

Pécs, Hungary

Feb. 2026 – Apr. 2026

- Developed an event-driven IoT system using ESP8266, physical switches, and HTTP communication over Wi-Fi with reliable sensor failure handling.
- Built an automated Linux-based file processing pipeline to detect, process, transfer, and remove files for end-to-end workflow automation.
- Diagnosed and resolved SFTP integration issues between MySecureShell and Paramiko by debugging root directory mapping and documenting the solution.

PROJECTS

Diabetes Prediction Using Machine Learning | *BSc Thesis — Python, Scikit-learn, XGBoost, Pandas, NumPy*

- Developed predictive models using Logistic Regression, Random Forest, XGBoost, and a Soft Voting Ensemble for diabetes classification.
- Processed clinical and health survey (BRFSS) datasets and applied preprocessing, feature analysis, and imbalance-handling techniques.
- Improved minority-class detection using ADASYN, class weighting, and threshold optimization.
- Evaluated model performance using Recall, Accuracy, Precision, F1-score, ROC-AUC, and confusion matrices.

University Administration System | *Java, Spring Boot, MySQL, Swagger*

- Developed a Java Spring Boot web application for managing student records and academic workflows.
- Designed and integrated a MySQL database with RESTful APIs for secure data management and reporting.
- Documented APIs using Swagger to support testing, maintenance, and integration.

TECHNICAL SKILLS

Languages: Python, Java, C

ML / Data Science: Scikit-Learn, XGBoost, Random Forest, PyTorch, TensorFlow, NumPy, Pandas, ADASYN

Data & Databases: SQL, MySQL, MongoDB Atlas, Excel

Tools & Platforms: Git, GitHub Actions, Streamlit, Power BI, Jupyter, PyCharm, Visual Studio, Swagger, Spring Boot, Linux

Office & Productivity: Microsoft Office (Excel, Word, PowerPoint, Teams)

Languages Spoken: English (Fluent), Urdu (Native), Hindi (Fluent)