Aasia Salahuddin

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GitHub   LinkedIn

Education

Sukkur IBA University   *Graduated, July 2025*
Bachelor's in Computer Science, GPA: 3.0/4.0
Relevant Courses: Data Science and AI, Machine Learning, Web Development, Data Structures and Algorithms

Experience

Software and Integration Intern, ASANI.IO   *Jun 2023 – Aug 2023*
Karachi, Pakistan

- Integrated Zong API VPABX with ClickUp for automated workflows.
- Developed Python scripts to fetch and process IoT sensor data.
- Worked with Docker for microservices deployment.

Data Science Intern, Code Alpha   *Mar 2024*
(Remote)

- Built Titanic survival prediction model using Logistic Regression.
- Implemented LSTM-based stock price prediction.
- Preprocessed datasets, tuned hyperparameters, and evaluated models.

Data Science & Machine Learning Intern, Cloud Credentials   *Jul 2025 – Aug 2025*
(Remote)

- **Customer Segmentation:** Performed clustering on Mall Customer dataset using K-Means and DBSCAN, optimized cluster numbers, and visualized patterns with Matplotlib.
- **Loan Approval Prediction:** Built classification models (Logistic Regression, Decision Tree) with SMOTE for class imbalance.
- **Movie Recommendation System:** Developed collaborative filtering and SVD matrix factorization.
- **Traffic Sign Recognition:** Trained CNN and MobileNet models; applied augmentation for accuracy.

Projects

IoT Water Monitoring System, ASANI.IO   *2023*

- Built IoT-based water usage tracking with ThingsBoard, MQTT, and Docker.

DeepFracNet – Explainable AI Fracture Detection   *FYP — 2023 – 2025*

- Developed YOLO and Transformer-based fracture detection system.
- Used Grad-CAM for explainable results; trained on FracAtlas dataset.

Fracture Detection using YOLO Models   *2024*

- Optimized YOLOv9/YOLOv10 for fast, accurate X-ray detection.

Age & Gender Prediction (UTKFace)   *2024*

- Built a multi-output CNN model for age regression and gender classification.
- Preprocessed images (resize, grayscale, normalize) and trained using Keras.

EchoPen – Blogging Platform   *2025*

- Developed blogging platform with authentication, editor, and content upload.

Technical Skills

- **Data Science & ML:** Python, Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, OpenCV
- **Python Programming:** Data analysis, automation
- **Data Visualization:** Matplotlib, Seaborn, Plotly
- **Databases:** MySQL, MongoDB
- **Web Development:** React.js, Node.js, Express, REST APIs, HTML5/CSS3, JavaScript
- **Frontend Development:** React.js, TailwindCSS, Bootstrap
- **UI/UX Design:** Figma, Canva