JAZIB

Data Scientist | Machine Learning Engineer

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EDUCATION

National University of Sciences and Technology, SEECS — **Islamabad, Pakistan**
Bachelor of Engineering (BE), Software Engineering — *Nov 2021 - Jun 2025*

- **Coursework:** Machine Learning, Deep Learning, Large Language Models, Probability and Statistics, Linear Algebra, Data Structures and Algorithms, Object Oriented Programming, Database Systems, Calculus.
- **Final Year Design Project:** FinForecastHub – A FinTech product that will help businesses forecast their financial performance realistically by incorporating market-scenarios while projecting their financial performance. We used deep learning based few-shot forecasting architectures like TinyTimesMixer (TTMs) to achieve this.

WORK EXPERIENCE

Data Scientist (Image Processing) — **Munich, Germany (Remote)**
Elunic AG — *Mar 2025 – Present*

- Working with their Data Science team on their AI.SEE product where I train and evaluate Image Segmentation models for easy and hard images.
- AI.SEE is their product which has many active clients and we are working to provide them Image Segmentation services.

Data Scientist & ML Engineer — **Islamabad, Pakistan**
Freelance — *Jan 2023 – Present*

- Project 1: AI-based Stock Trading Application in Python – Used trading view's real-time data to generate stock signals.
- Project 2: Training and evaluating models on Loan Approval data considering their genders, income, employment status.
- Project 3: Prediction, Classification, and Clustering on Public Expenses Dataset – Supervised and Unsupervised ML.

Development Intern — **Islamabad, Pakistan**
Vaasel — *Jun 2023 – Aug 2023*

- Worked on developing the frontend side of Admin Dashboard for their event manager mobile application named 'Circle'.

Software Engineering Intern — **Islamabad, Pakistan**
EDWIZ — *Oct 2022 – Dec 2022*

- Worked on Software Requirements Specifications & Software Design Specifications for their mobile application 'SeekO'.

SKILLS

- **Technical Skills:** Data Science, Data Analysis, Exploratory Data Analysis (EDA), Descriptive Analysis, Diagnostic Analysis, Predictive Analysis, Prescriptive Analysis, NumPy, Pandas, SciPy, Scikit-Learn, Data Visualization, Matplotlib, Seaborn, Time-Series Analysis and Forecasting, Financial Analysis, Explainable AI (SHAP), Machine Learning, Deep Learning, TensorFlow, Keras, PyTorch, Computer Vision, OpenCV, YOLO, Sequence Models, Natural Language Processing, NLTK, spaCy, Neural Networks, Artificial Neural Networks (ANNs), Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Long Short-term Memory (LSTMs), Transformers, Autoencoders (AEs), Variational Autoencoders (VAEs), Python Frontend Frameworks (PyQT5 and Tkinter), Python Backend Frameworks (Flask, FastAPI), MySQL.
- **Programming Languages:** Python, C, C++, Java, JavaScript and others.
- **Mathematical Background:** Probability, Statistics, Linear Algebra, Calculus.
- **Soft Skills:** Presentation Skills, Report Writing, Communication Skills, Team Collaboration, Fast-paced learning,

PROJECTS

FinForecastHub – Market Scenario Based Financial Time-Series Forecasting — *June 2024 – Present*

- Developed an automated tool that can process financial datasets of any size—tiny, small, moderate, or large—and accurately forecast financial performance while automatically catering to the dataset's size and nature.
- Used TinyTimeMixer (TTM), a non-transformer-based time series model architecture, which is heavily pretrained and has less runtime training latency.
- Created and tested the endpoints using FastAPI and PyTest.

Credit Worthiness in Microfinance Banks using Explainable AI — *Jul 2024 – Aug 2024*

- Used Explainable AI libraries like SHAP to ensure transparency in ML models for credit worthiness in loans.
- Used Synthetic Minority Over Sampling (SMOTE) technique to address data imbalance of (88/12) ratio to (50/50).

Food Calori Estimation using OpenCV and YOLO

- Used OpenCV to preprocess food images and YOLO to do food detection in images. Used K-Nearest Neighbour Regressor to predict number of calories in the detected food. Used Streamlit to give web interface to the model.

CERTIFICATIONS

Machine Learning Specialization — Deeplearning.ai (Coursera)
Deep Learning Specialization — Deeplearning.ai (Coursera)
Machine Learning Scientist in Python — DataCamp (Career Track)
Associate Data Scientist in Python — DataCamp (Career Track)
Programming for Everybody (Getting Started with Python) — University of Michigan (Coursera)