

Aliullah

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Education

• Friedrich-Alexander-Universität

Erlangen-Germany

MSc. Artificial Intelligence, Note 1.6

April 2023 – March 2026 (*Expected*)

• NED University of Engineering and Technology

Karachi-Pakistan

BE., Industrial and Manufacturing Engineering, Grade 1.1

December 2016 – October 2020

Experience

Siemens

Nuremberg, Germany

Working student – Data Scientist

October 2024 – Present

- Fine-tuned foundation models for electrical load demand forecasting, improving prediction accuracy and scalability across real-world energy datasets
- Developed and optimized Python-based forecasting models, improving accuracy by 10–12% across industrial use cases.
- Engineered scalable forecasting APIs with validation pipelines, increasing adoption by 20x and enhancing model reliability.
- Delivered analytical dashboards to 500+ stakeholders, supporting planning, decision-making, and business alignment.

TecHayal

Remote

Data Scientist

November 2022 – March 2023

- Built and deployed deep learning pipelines, improving image recognition accuracy by 30% and enhancing data-driven marketing.
- Designed Python APIs and automated data workflows, increasing system efficiency and data accessibility.
- Conducted exploratory and ad-hoc analyses to generate actionable insights for product and business strategy.

Freelance

Remote

Data Scientist and Analyst

October 2021 – November 2022

- Built time-series forecasting models for sales and inventory planning, improving demand planning efficiency.
- Developed SQL-based data pipelines and validated datasets to ensure high data quality and KPI reliability.
- Created Tableau and Power BI dashboards for automated reporting and performance monitoring across departments.

Auvitronics Ltd.

Karachi, Pakistan

Data Analyst

October 2020 – October 2021

- Collected, structured, and analyzed logistics and demand datasets, improving operational efficiency by 20%.
- Forecasted shipment trends and optimized transport routes, reducing costs by 10–15%.
- Prepared structured reports and communicated analytical findings to senior management for strategic decisions.

Digital Competencies

- | | |
|--------------------------------------|---|
| • Programming: | Python, SQL, REST APIs |
| • AI/ML Engineering: | Scikit-learn, TensorFlow, PyTorch, Foundation models, GenAI |
| • Data Engineering & ETL: | Pandas, Dockerized workflows, MySQL |
| • Visualization & Tools: | Streamlit, Plotly, Tableau, Power BI, MS Office |
| • Cloud & DevOps: | Git, GitHub, GitLab, Docker, AWS (S3, EC2), CI/CD |

Certificates

- **Machine Learning in Production** from deeplearning.ai
- **Deep Learning Specialization** from deeplearning.ai
- **Generative AI for Everyone** from deeplearning.ai

Projects

- **Fine-tune Foundation models:** Created dedicated finetuned foundation models (Chronos) for demand forecasts.
- **Comparative Energy Time Series Forecasting:** Benchmarked ARIMA, HCNN, LSTM, and BLSTM for energy demand.
- **Customer Churn Dashboard – Power BI:** Designed KPI dashboards with SQL integration to support business decisions.

Achievements

- Ranked 2nd in bachelor's with a 3.9/4.0 GPA (1.1 German grade).
- Recipient of multiple merit-based scholarships awarded by HEC Pakistan and other organizations.