Syed Uzair Niaz Ali Shah

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Personal-Portfolio

Personal Statement

Electrical Engineering graduate with hands-on experience in Python, data handling, and working with AI tools. Currently enrolled in the PEC Generative AI Training Program, gaining practical knowledge of AI/ML pipelines. Passionate about solving problems and contributing to real-world AI projects. Quick learner, reliable, and ready to work in a collaborative environment.

Education

University of Engineering and Technology (UET) Peshawar **2019 - 2023**
BSc Electrical Engineering achieving CGPA: **3.48/4.00**

Technical Skills

- **Programming & Data Handling:** Python (basic), working with CSV/JSON files, introductory SQL
- **AI/ML Exposure:** Learning AI workflows, model inputs, and data preprocessing via PEC Generative AI Training
- **Tools & Platforms:** Microsoft Excel, Google Colab, Git (basic), Linux (basic)
- **Soft Skills:** Strong attention to detail, clear communication, ability to follow guidelines
- **Current Focus:** Understanding data pipelines, annotation techniques, and model-ready data preparation.

Work Experience

1. **Fixed Broadband Optical Network Engineer Huawei Technologies** **09/2023 - 12/2023**

- Executed network fault documentation and performance checks in strict alignment with engineering protocols.
- Maintained structured reporting logs and collaborated with remote teams, reinforcing clarity and consistency.
- Followed precise technical guidelines and supported procedural documentation for internal knowledge systems.

Research Experience and Projects

1. **NetWhiz - AI-Powered Smart Troubleshooting Assistant for Telecom Networks**
   May 2025 – Personal Project | Deployed on Hugging Face
   Link: NetWhiz on Hugging Face
   - Developed an interactive AI assistant for diagnosing telecom network issues by analyzing error logs and fault descriptions.
   - Integrated Large Language Models (LLMs) via Groq API to provide root cause analysis and detailed, step-by-step troubleshooting guides.
   - Built a user-friendly interface using Streamlit; deployed on Hugging Face Spaces with optional voice input/output (Whisper, TTS).
2. **Smart Energy Load Forecasting Web App, 2025**
   Technologies: Python, Gradio, Prophet, Pandas, Matplotlib
   Link: PowerCaster
   - Built an interactive web app to forecast Germany's energy demand using the Prophet model.
   - Visualized trends with plots like forecast graphs, hourly usage, and seasonal variation.
   - Enabled user control over forecast duration and plots via Gradio interface.
   - Used real-world open data and added peak demand insights to support energy planning.

Achievements and Certificates

1. **PEC Generative AI Training Program (Cohort 2)** – In Progress
2. Python for Everybody Specialization – University of Michigan (90+%)
3. Fundamentals of Database Systems (Coursera Project Network, April 2023)