# Samar Mubarak

IAM Consultant
Islamabad

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## Profile

Aspiring IAM Consultant with hands-on experience in One Identity Manager, specializing in synchronization, data mapping, and role-based access control (RBAC) configuration.

Strong background in networking, including switch and access point configurations, and data center migration.

Proficient in data analysis, model training, and deployment using Python and advanced generative AI frameworks like Langchain. Experienced in prompting, retrieval-augmented generation (RAG), and working with vector databases. Contributed to AWS DeepRacer by optimizing a reward function for enhanced performance. Eager to leverage my diverse skill set in a dynamic, fast-paced environment.

## Skills

**Identity & Access Management (IAM):**

- One Identity Manager | Synchronization Editor | Role-Based Access Control (RBAC) | Data Mapping & Migration

**Networking & Data Center Operations:**

- Cisco Switch & AP Configuration | Data Center Migration | LAN/WAN Troubleshooting

**Data Analysis & Visualization:**

- Data Cleaning | Statistical Analysis | Predictive Modeling | Data Visualization (Tableau, Python)

**Generative AI & Machine Learning:**

- Large Language Models (LLMs) | Hugging Face | Prompt Engineering | Retrieval-Augmented Generation (RAG) | Model Fine-Tuning | Vector Databases (Chroma DB, Faiss, Pinecone)

**Programming & Tools:**

- Python | PyTorch | TensorFlow | Scikit-learn | MLflow | langchain | Streamlit | .net | Powershell scripting

# Project Experience

**IAM One Identity Manager Projects**

- Implemented synchronization, data mapping, and role-based access control (RBAC) configurations. Enhanced security and access management within organizational systems, ensuring compliance and streamlined identity management.

**Networking & Data Center Migration**

- Gained hands-on experience configuring Cisco switches and access points (APs) while participating in a large-scale data center migration. Worked on resolving LAN/WAN connectivity issues, optimizing network performance.

**MRI Knee Classification using MRNet Dataset**

- Developed a model to classify knee MRIs as normal or abnormal across axial, coronal, and sagittal views. Addressed dataset imbalance through data augmentation and upsampling techniques, improving prediction accuracy and overcoming initial model bias. Integrated multiple views for more reliable real-world performance.

**Bone Marrow Cell Classification**

- Built a deep learning model using VGG16 to classify bone marrow cells into one of 21 cancer cell types. Preprocessed cell images and implemented advanced image processing to enhance model performance, contributing to more accurate diagnostic tools in medical research.

# Work Experience

**Network Engineer**
**CommTel – Pakistan [APR 2024 – Present]**

- Led the successful migration of a data center at the Pakistan Council of Scientific and Industrial Research (PCSIR), configuring Cisco switches, access points (APs), and other network devices to ensure seamless connectivity and system functionality.
- Currently working on the **Smart College Initiative** by HEC Pakistan, responsible for configuring network infrastructure, including switches, APs, and other critical devices to support smart technologies in educational institutions.
- Collaborated with cross-functional teams to resolve LAN/WAN issues and optimize network performance for large-scale deployments.
- Engaged in troubleshooting and system upgrades to maintain high availability and performance for ongoing projects.

## Education

BSc Software Engineering

- National university of computer and emerging sciences (Fast, Islamabad)                    2020-2024

## Certificates

- Data Science Professional Certificate from IBM                                   [Link](#)

- OCI Generative AI Professional Certificate 2024 from Oracle                       [Link](#)

- Multi-model Rag with videos (Deep Learning.AI)                                    [Link](#)

- 1 month remote Internship At neevas India
- Pretraining LLMs(Deep Learning.AI)                                                [Link](#)

## Languages

English    |    Hindi    |    Urdu    |    Pashto