Hakeem Yar Baig
Senior Co-Founder & COO at BeeNeural | AI/ML Specialist | Neo4j Certified Professional 2025 | AI Agents & MLOps Engineer

SUMMARY

AI/ML & MLOps Engineer with 4+ years of experience designing and deploying scalable, production-grade machine learning systems. Expert in Python, PyTorch, TensorFlow, AWS, MLflow, Hugging Face, and Neo4j graph modeling. Strong background in ETL pipelines, NLP, Computer Vision, OCR, and multi-agent architectures using LLMs and LangChain.

Led 50+ remote projects delivering advanced analytics dashboards and graph-powered solutions. Proficient in DevOps methodologies, CI/CD pipelines, and Docker containerization to ensure robust software development lifecycles.

TECHNICAL SKILLS

Main Technical Skills	AI/ML, MLOps, Python (3 yr.), LLMs (2 yr.), DevOps (2 yr.)
Programming Languages	Python (3 yr.)
Python Libraries and Tools	Advanced Python, PyTorch, TensorFlow
AI & Machine Learning	AI, AI/ML, AWS SageMaker, AWS SageMaker (Amazon SageMaker), Computer Vision, Hugging Face, LangChain, LLM, LSTM, Machine Learning, Machine Learning Models, Mlflow, Neural Networks, NLP, OCR, PyTorch, TensorFlow
PHP Libraries and Tools	Phalcon
Data Analysis and Visualization Technologies	Dashboards, Data Analysis, ETL Pipelines, ML, Power BI, Regression, Time Series
Databases & Management Systems / ORM	Neo4j
Cloud Platforms, Services & Computing	AWS
Amazon Web Services	AWS ECS (Amazon Elastic Container Service), AWS SageMaker, AWS SageMaker (Amazon SageMaker)
Azure Cloud Services	Azure DevOps
Google Cloud Platform	GCE
	SAAS

Industry Domain Experience	
UI/UX/Wireframing	3D Modelling
Deployment, CI/CD & Administration	CI/CD, DevOps (2 yr.)
Virtualization, Containers and Orchestration	Docker, Docker Compose
Platforms	WordPress
Other Technical Skills	BS, computer science, Containerization, Data Mining & Business Intelligence, Generative AI, LLM Agents, Load, Monitoring, Software Development, Tools

WORK EXPERIENCE

Co-Founder & COO - BeeNeural.AI (AI/ML and Graph Solutions Projects)

Duration: February 2024 - Present

Summary:

- BeeNeural is a technology company specializing in AI/ML, MLOps, DevOps, and data engineering solutions
- The company delivers custom AI agents, advanced analytics dashboards, and graph-powered solutions, focusing on NLP, computer vision, AI agent architectures, business intelligence, and SaaS AI development

Responsibilities:

- Leading the company operations and strategic direction in AI/ML and data engineering.
- Overseeing the design, deployment, and scaling of machine learning systems in production environments.
- Driving innovation in graph and knowledge engineering using Neo4j technologies.
- Managing remote teams and projects to deliver scalable AI solutions.

Technologies: Python, PyTorch, TensorFlow, Neo4j, Cypher, AWS, MLflow, Hugging Face, Docker, Power BI

Machine Learning Engineer - cloudlem (Machine Learning Engineering Projects)

Duration: October 2022 - February 2024

Summary: Worked on machine learning projects involving time series forecasting and object detection, applying advanced LSTM networks and object detection frameworks to real-world datasets.

Responsibilities:

- Developed and implemented machine learning models for forecasting and object detection.
- Handled data analysis and preprocessing for real-world datasets.

- Collaborated with cross-functional teams to integrate ML models into production.

Technologies: LSTM networks, object detection frameworks, Python

DevOps Engineer - cloudlem (DevOps and MLOps Projects)

Duration: October 2022 - November 2023

Summary: Focused on DevOps and MLOps practices including CI/CD, containerization, cloud deployments, and model monitoring to support machine learning projects and infrastructure.

Responsibilities:

- Implemented CI/CD pipelines for ML projects.
- Managed containerization and cloud deployment using AWS and Docker.
- Monitored machine learning models using MLflow and Hugging Face tools.

Technologies: AWS, Docker, MLflow, Hugging Face, CI/CD

Machine Learning Engineer Intern - YoungDev (Internship Projects in Machine Learning)

Duration: November 2023 - December 2023

Summary: Internship focused on gaining advanced proficiency in LSTM networks for time series forecasting and practical application of object detection frameworks using real-world datasets.

Responsibilities:

- Learned and applied LSTM networks for forecasting tasks.
- Worked with object detection frameworks on real datasets.
- Enhanced data analysis skills through hands-on experience.

Technologies: LSTM networks, object detection frameworks, Python

EDUCATION

- **Karakurram International University**
  Bachelor of Science - BS, Computer Science
  August 2018 - October 2022
- **Aga Khan Higher Secondary School, Gilgit**
  High School Diploma, Pre-Engineering
  May 2016 - May 2018
- **Aga Khan Higher Secondary School, Gilgit**
  Middle School Diploma
  March 2013 - May 2015

CERTIFICATION

- **Neo4j Certified Professional**
  2025
- **Prepare, Clean, Transform, and Load Data using Power BI**
- **Supervised Machine Learning: Regression and Classification**
- **MLOps Tools: MLflow and Hugging Face**

- **AWS AI & ML Scholars**
- **Introduction to Generative AI**