

Khawaja Muhammad Haroon

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SUMMARY

Highly skilled and certified **AI Engineer, Full Stack Developer, Data Scientist, and IT Administrator** with a strong technical foundation in building and deploying **AI/ML models**, designing **scalable full-stack applications**, and delivering **data-driven business insights**. Proficient in **AWS (EC2, S3, IAM)**, **Git/GitHub**, and **Linux**, with proven expertise in **system administration, troubleshooting, and performance optimization**. Adept at leveraging **advanced technologies, automation, and cloud solutions** to solve complex problems and drive innovation in fast-paced, technology-driven environments. Recognized for **technical training, mentorship, and collaborative teamwork** that empower individuals and organizations to achieve their goals.

SKILLS

Web Development:

- **Frontend:** HTML5, CSS3, JavaScript (ES6+), Bootstrap, Tailwind CSS, React.js, Next.js, Redux, TypeScript
- **Backend:** Python (Flask, Django, FastAPI), Node.js, Express.js
- **Databases:** MySQL, Titanium DB(TiDB), MongoDB, Firebase, SQLite
- **Other Tools & Libraries:** REST APIs, GraphQL, JSON, AJAX, jQuery, WebSockets

Artificial Intelligence, Machine Learning & Deep Learning:

- **ML Libraries:** Scikit-learn, XGBoost, LightGBM, CatBoost
- **DL Libraries:** TensorFlow, Keras, PyTorch, Theano
- **Computer Vision:** OpenCV, Mediapipe, YOLO, Hugging Face Vision Models
- **NLP (Natural Language Processing):** NLTK, SpaCy, Hugging Face Transformers, Gensim, TextBlob, BERT, GPT-based Models
- **Other Tools:** MLflow, Optuna (hyperparameter tuning), ONNX, TensorRT
- **Specialized:** Recommendation Systems, Time Series Forecasting, Reinforcement Learning

Databases & Cloud:

- **SQL** (MySQL, PostgreSQL, SQLite)
- **Data Analysis & Visualization:** Tableau, Power BI
- **Cloud Platforms:** Huawei Cloud, AWS (EC2, S3, RDS, Lambda, IAM, CloudWatch, DynamoDB), Google Cloud (BigQuery, Firebase), Microsoft Azure (Blob Storage, ML Studio)

Data Analytics & Visualization:

- **Python Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Plotly, Bokeh, Altair
- **EDA & Reporting:** Streamlit, Dash, Tableau, Power BI, Jupyter Notebook, Google Data Studio
- **Big Data Tools:** Apache Spark, PySpark, Hadoop (basics)

Version Control & Collaboration:

- **Git:** Distributed version control system for tracking and managing code changes.
- **GitHub & GitLab:** Cloud-based hosting, CI/CD integration, issue tracking, and project collaboration.
- **Other Tools:** Bitbucket, Jira, Trello, Slack

Operating Systems & Tools:

- Linux (Command Line, Shell Scripting, System Administration)
- Docker (Containerization), Kubernetes (Orchestration), Ansible (Automation)
- Virtualization: VMware, VirtualBox
- VS Code, PyCharm, JupyterLab

IT & Troubleshooting:

- System Troubleshooting & Maintenance
- Performance Optimization & Security Hardening
- Issue Resolution & Technical Support

CERTIFICATIONS

- **Nuexus** – Artificial Intelligence (Machine Learning & Deep Learning)
- **NAVTTTC** – Full Stack Web Development
- **NAVTTTC** – Certificate in Computer Applications & Graphic Designing
- **Pingcay Academy** – TiDB Practitioner Certification
- **Confluent** – Data Streaming Engineer Certificate([Link](#))
- **Coursera** – Introduction to Get and GitHub ([Link](#))
- **Coursera** – Google AI Essentials ([Link](#))
- **Cognitive Class** – Prompt Engineering ([Link](#))

EXPERIENCE

IT Trainer & IT Administrator

[Jan 2025 – Present]

- Deliver training sessions on Artificial Intelligence, Python programming, and Linux system administration, enhancing staff and student technical expertise.

- Design and facilitate hands-on workshops on cloud platforms, data analysis, and IT troubleshooting best practices.
- Administer day-to-day IT operations, ensuring reliable performance of office systems, networks, and user support.
- Manage office IT infrastructure and collaborate with management to streamline administrative and technical workflows.

PROJECTS

1. Web Application Development

- Developed a responsive full-stack web application with authentication and data management features.
- **Tools:** HTML, CSS, JavaScript, React.js, Express.js, Flask, AWS, SQL

2. Data Visualization Dashboard

- Built an interactive dashboard to analyze and visualize datasets, supporting decision-making.
- **Tools:** Power Bi ,Tableau,Python, Matplotlib, Pandas, SQL

3. AI Chatbot

- Designed a Python-based Chatbot capable of handling user queries using NLP.
- **Tools:** Python, NLP, Machine Learning

4. House Price Prediction

- Implemented a machine learning model to predict house prices using linear regression.
- **Tools:** Python, Scikit-learn, Pandas, Matplotlib

5. Heart Disease Prediction Model

- Developed a machine learning model to predict the likelihood of heart disease based on medical attributes.
- Applied data preprocessing, feature engineering, and classification algorithms to improve accuracy.
- **Tools:** Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

6. AI Layered Architecture Implementation

- Designed a modular AI system with layered architecture separating **data preprocessing, model training, and deployment pipelines**.
- Ensured scalability, reusability, and easy integration of multiple AI/ML models into a single workflow.
- **Tools:** Python, TensorFlow, Keras, MLflow, Docker

Core Competencies

- **Full-Stack Application & Web Development** (Frontend, Backend, Databases, APIs)
- **Machine Learning & Deep Learning** (Model Development, Training & Deployment)
- **Artificial Intelligence & Automation** (AI-powered Tools, NLP, Workflow Automation)
- **Data Analytics & Visualization** (Tableau, Power BI, Python Libraries)
- **Python Automation & Web Scraping** (Scripting, Data Extraction, ETL Pipelines)
- **Version Control & Collaboration** (Git/GitHub, CI/CD, Project Management)
- **Technical Training & Mentorship** (Workshops, Knowledge Sharing, Student Engagement)
- **Agile Mindset & Team Collaboration** (Scrum, Kanban, Cross-functional Teams)

EDUCATION

Virtual University

BS CS [2025 – 2029]

Muzaffarabad

[Achievement, e.g., among the top 5% of the batch]