**Khawaja Muhammad Haroon**

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**SUMMERY**

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)
* **NAVTTC** – Full Stack Web Development
* **NAVTTC** – Certificate in Computer Applications & Graphic Designing
* **Pingcay Academy** – TiDB Practitioner Certification
* **Confluent** – Data Streaming Engineer Certificate([Link](https://certificates.confluent.io/cf05d5c8-9c93-474a-a315-7e760d0b64de#acc.hWHLAfOF))
* **Coursera** – Introduction to Get and GitHub ([Link](https://www.coursera.org/account/accomplishments/records/WQZRWMWYWI82))
* **Coursera** –  Google AI Essentials ([Link](https://www.coursera.org/account/accomplishments/records/BDPUJNNB5Z76))
* **Cognitive Class** – Prompt Engineering ([Link](https://courses.cognitiveclass.ai/certificates/8ef8e7674d1e4d13bb6866682ec4ac64))

**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 ,Tablue,Python, Matplotlib, Pandas, SQL

**3. AI Chabot**

* Designed a Python-based Chabot 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]