

# EHTISHAM SADIQ

Data Scientist/Machine Learning Engineer

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## Professional Summary

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Data Scientist & Machine Learning Engineer with 2+ years of experience building and deploying high-impact machine learning models. Possess expertise in NLP, deep learning, and MLOps. Proven ability to design, develop, and deploy scalable microservices-based ML solutions on cloud platforms, driving tangible business value. Passionate about leveraging data science and ML to solve real-world challenges and make a positive impact.

## Experience

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### Machine Learning Engineer

May 2023 – Present

*Vacon.ai*

*Lahore, Pakistan*

- Developed a high-impact SaaS platform for debt collection (1200% revenue increase). Built with microservices (Python, FastAPI, SQLAlchemy), it included automated data intake, multi-tenancy, and debt collector tools for improved efficiency.
- Managed robust data pipelines and infrastructure. Executed data cleaning/transformation/loading workflows (Prefect) and built CI/CD pipelines for streamlined deployments. Optimized database performance (PostgreSQL).
- Leveraged Machine Learning for data and user experience. Employed ML for record linkage and deployed models on AWS. Integrated ML APIs for improved data accuracy and user satisfaction.

### ML Engineer Intern

Sep 2022 – Mar 2023

*DGB Technologies*

*Lahore, Pakistan*

- Built and deployed a novel ML system using OpenAI APIs (FastAPI, Langchain) on AWS (from scratch). Streamlined operations and improved efficiency by 200%.
- Delivered high-performing ML models via expert data work and algorithm tuning. Optimized models for diverse tasks of image classification & Time Series and ensured top-tier performance.
- Integrated ML solutions seamlessly, collaborating effectively. Championed cutting-edge advancements in ML and Data Science.

### Data Analyst

Aug 2021 – Aug 2022

*Blink Co Technologies Ltd.*

*Lahore, Pakistan*

- Utilized Python for data gathering, pre-processing, and analysis, ensuring data integrity.
- Applied advanced analytical techniques to identify trends and present insights effectively.
- Crafted clear and informative reports and visualizations to convey complex data findings.

### Data Science Intern

Jan 2021 – Apr 2021

*Zep Analytics*

*Remote*

- Collected and pre-processed data, developed ML models, and enhanced feature engineering.
- Extracted insights from diverse data-sets, communicated findings effectively, and deployed solutions.
- Designed innovative solutions, collaborated across teams, and adapted to new technologies.

## Education

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### Bachelor of Science in Software Engineering

Oct. 2019 – May 2023

*Punjab University College of Information Technology*

*Lahore, Pakistan*

## Projects

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### A web application for the prevention of mental disorders in social media posts using NLP

- Engineered a web app for proactive mental disorder detection in social media content, deploying NLP and deep learning.
- Demonstrated NLP and deep learning expertise with PyTorch, and MongoDB, and ensured its continual operation and maintenance.
- Utilized NumPy, Pandas, Matplotlib, Seaborn, and SKlearn for data analysis, contributing to enhanced mental health awareness.

## Evaluating Product Performance through BlueCart API Extraction

- Leveraging Walmart's BlueCart API to evaluate product and sales performance for a Walmart Reseller store through data extraction, cleaning, and analysis to drive business decisions.

## Event Planner

- Build a web-based event planning tool that allows users to create and manage events, send invitations, and track RSVPs using Django, MySQL, Heroku, etc.

## Relevant Coursework

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|------------------------|-------------------------------|----------------------------------|
| • Data Structures      | • Artificial Intelligence     | • Software Engineering Practices |
| • Software Methodology | • Machine Learning            | • Communication Skills           |
| • Algorithms Analysis  | • Natural Language Processing | • Mathematics                    |
| • Database Management  | • Deep Learning               |                                  |

## Teaching

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### Learning Practical Data Science and Machine Learning

July 2023

- Empowered students with data analysis & ML deployment skills.
- Hands-on learning in data collection, cleaning & model building
- Cultivated a foundation for real-world application of machine learning.

## Technical Skills

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**Programming Languages:** Python, HTML/CSS, JavaScript, SQL

**Developer Tools:** Git, GitHub, Jupyter Notebook, PyCharm, Google Colab, Docker

**Frameworks:** TensorFlow, Pytorch, Keras

**Tools:** Pandas, NumPy, Seaborn, Matplotlib, Plotly, Streamlit, Heroku

**Technologies and Platforms:** NLTK, spaCy, Gensim, Flask, Django, Selenium, MongoDB, RESTful APIs, CI/CD Pipelines, MLOps, Hugging Face, LangChain, AWS sagemaker, Google Cloud Platform (GCP), OpenAI, ChatGPT

**Methodologies :** Exploratory Data Analysis, Machine Learning Engineering, Deep Learning, Natural Language Processing, Artificial Intelligence, Time Series Analysis, Databases, Data Analysis, Data Analytics, Data Mining, Text Mining, Pattern Recognition, Data Visualization, Feature Engineering, Data Engineering

**Fields/Solutions:** Generative AI, Image Processing, Conversational AI, Chatbots, AI Solutions, Predictive Modeling, Product-ionizing Models, Quantitative Analysis/Quantitative Analytics, Text Classification, Sentiment Analysis, BERT (Language Model), GPT-3, Large Language Models, Agile Development

**Soft Skills:** Problem-solving, Critical thinking, Collaboration, Adaptability, Communication, Self-motivation, Attention to detail, Teamwork, Skill Development, Learning

## Certificates and Achievements

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- Deep Learning Using Python (DataCamp) (Hands-on Practice)
- Machine Learning Scientist with Python (DataCamp) (Advanced Skills)
- Data Analysis with Python (Core Concepts)
- Responsive Website Basics: Code with HTML, CSS, and JavaScript (Coursera) (Front-End Development Fundamentals)
- Teacher Assistant for **Data Science using Python** at FCIT (Teaching Experience)