EHTISHAM SADIQ

Data Scientist/Machine Learning Engineer

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Summary

Data scientist and machine learning engineer with 2+ years of experience in building and deploying state-of-the-art ML models to solve real-world problems. Expertise in NLP, deep learning, and MLOps. Proven ability to design, develop, and deploy scale-able ML solutions that drive business value. Passionate about using data science and ML to make a positive impact.

Education

Punjab University College of Information Technology   **Oct. 2019 – May 2023**
Bachelor of Science in Software Engineering   *Lahore, Pakistan*

Relevant Coursework

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

Experience

Vacon.AI   **May 2023 – Present**
Machine Learning Engineer   *Lahore, Pakistan*

- As an ML Engineer, I lead the development, deployment, and maintenance of state-of-the-art machine learning models across diverse applications. Collaborating closely with cross-functional teams, I transform innovative ideas into scale-able solutions.
- Conducting rigorous experiments, data analysis, and insightful observations are integral to my role. I optimize machine learning model performance through efficient data pipelines, ensuring consistent and superior results.
- To drive continuous improvement, I remain at the forefront of the evolving machine learning landscape. By integrating the latest technologies and frameworks like FastAPI, Flask, Keras, PyTorch, Hugging Face, OpenAI, Large Language Models, and cloud services like Google Cloud and AWS, I contribute to advancing our products and services.

DGB Technologies   **Sep 2022 – Mar 2023**
ML Engineer Intern   *Lahore, Pakistan*

- Proficiently pre-processed and cleaned data, optimizing it for machine learning models. Engineered features and fine-tuned algorithms to deliver tailored solutions for diverse tasks.
- Skillfully trained, validated, and fine-tuned machine learning models, ensuring top-tier performance. Evaluated model outcomes and seamlessly collaborated with cross-functional teams on intricate projects.
- Actively contributed to integrating innovative machine learning solutions into existing systems, enhancing overall performance. Maintained a pulse on the latest advancements in machine learning and data science, continually improving practices.

Blink Co Technologies Ltd.   **Aug 2021 – Aug 2022**
Data Analyst   *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.

Zep Analytics   **Jan 2021 – Apr 2021**
Data Science Intern   *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.

Projects

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, TensorFlow, 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.

Teaching

Learning Practical Data Science and Machine Learning   **July 2023**
- Strong command of data science fundamentals, including data collection, cleaning, and analysis, providing a solid foundation for insightful decision-making.
- Proficiency in building, training, and deploying machine learning models, with hands-on experience across various applications.
- Skillful deployment of machine learning solutions to production, optimizing performance and functionality for real-world applications.

Technical Skills

Languages: Python, HTML/CSS, JavaScript, SQL
Developer Tools: Git, GitHub, Jupyter Notebook, PyCharm, Google Colab, Docker
Technologies/Frameworks: Pandas, NumPy, Seaborn, Matplotlib, Plotly, Exploratory Data Analysis, Scikit-Learn, Tensorflow, Keras, Pytorch, NLTK, spaCy, Gensim, Flask, Django, Selenium, MongoDB, RESTful APIs, CI/CD Pipelines, MLOps, Hugging Face, LangChain, AWS sagemaker, Google Cloud(GCP), Openai, ChatGPT, Generative AI, Image Processing, Generative AI, Conversational AI, Chatbots, AI Solutions, 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, Streamlit, Heroku, Big Data, Datasets, Statistical Analysis, Model Training, Data Modeling, Model Management, 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

- Deep Learning Using Python (DataCamp)
- Machine Learning Scientist with Python (DataCamp)
- Data Analysis with Python
- Responsive Website Basics: Code with HTML, CSS, and JavaScript (Coursera)
- Teacher Assistant for **Data Science using Python** at FCIT