

Khair Ullah

Software Engineer

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Career Summary

Motivated and innovative Software Engineering graduate with a strong foundation in Software Development, Data Analytics, Machine & Deep Learning, AI, and Web Development. Skilled in Python programming, JavaScript, and Databases, with expertise in leveraging cutting-edge technologies to solve complex problems. Armed with hands-on experience in proposing robust Data and AI-Driven solutions to meet market trending business goals. Experienced in collaborating within Agile teams to deliver scalable and efficient software systems. Eager to contribute to **Software Industry** as an **Associate Software Engineer**, **Data Scientist**, **Data Analyst**, **Machine Learning Engineer** or an **AI Engineer**, driving impactful software innovations.

Skills

Problem Solving: Data Structures & Algorithms, Critical & Analytical Thinking, Creativity

Software Engineering: Requirements Analysis, System Design & Architecture, Design Patterns

Machine Learning & AI: Regression, Classification, NLP, Clustering, ChatBots, LLMs

Data Science: Data Analysis, Data Wrangling, Data Preprocessing, Data Visualization

Web Development: Frontend, Backend, APIs, Web Services

Soft Skills: Communication, Team Collaboration, Leadership, Adaptability, Code Reading & Revision

Tools & Technologies

Programming Languages: Python, JavaScript, SQL

Databases: MySQL, SQLite, MongoDB

Frameworks: Bootstrap, React, Django, Flask

Machine & Deep Learning: Pandas, NumPy, Scikit-learn, Keras, TensorFlow

Visual Tools: Matplotlib, Seaborn, Plotly, Power BI, Photoshop, Figma

Version Control & MLOps: Git, GitHub, AWS, Databricks

Professional Experience

Corvit Networks

Artificial Intelligence Trainee

Peshawar, Pakistan

May 2024 – August 2024

- Enhanced programming and data handling skills through intensive training.
- Mastered Python-based AI development, focusing on real-world applications.
- Designed machine learning models for text classification, NLP, image classification, and Chatbots.

Pinnacle Full-Stack Interns

Data Science Internship

Remote

June 2024 – July 2024

- Conducted exploratory data analysis to identify actionable business insights.
- Crafted impactful visualizations and dashboards to support data-driven decision-making.
- Developed ML models for fraud detection, predictive modeling, customer segmentation, to improve business forecasting.

Education

Abasyn University

Bachelor of Science in Software Engineering

Peshawar, Pakistan

Sep 2020 – Oct 2024

GPA: 3.36/4.0

- Focused on software development, data science, and AI.
- Graduated with honors, showcasing excellence in academic and project work.

Interests

End-to-End Product Design, Full-Stack Development, Data & AI-Driven Solutions, Chatbots, Generative AI, & LLMs.

Notable Projects →

1. **Twitter Sentiment Analysis using Deep Learning (BS-SE Final Year Project).**
 - Designed a sentiment analysis system leveraging BERT and BiLSTM for social media data.
 - Achieved higher accuracy in sentiment classification of informal and context-rich tweets.
2. **Data Science Professionals Salaries Trends in Global Industries, 2021-2023.**
 - Analyzed salary datasets to uncover compensation patterns, skill demands, and career trajectories.
 - Visualized trends to provide actionable insights for data professionals and industry leaders.
3. **Hotels Booking Data Analysis for Investigating Higher Cancellation Rate.**
 - Identified cancellation drivers through in-depth analysis of booking and customer data.
 - Recommended optimized booking policies to improve retention and minimize cancellations.
4. **Credit Card Fraud Detection: An Ensemble Model Development.**
 - Built an ensemble model to improve fraud detection accuracy and minimize false positives.
 - Enhanced transaction security through robust feature engineering and model optimization.
5. **Predicting Stock Market Trends: A Numerical-Textual Analysis.**
 - Developed a hybrid predictive model using sentiment analysis and financial indicators.
 - Enhanced prediction accuracy by integrating numerical and textual data sources.
6. **Customer Segmentation Analysis: For E-Commerce.**
 - Applied clustering techniques to categorize customers based on behaviors and preferences.
 - Delivered actionable insights to enhance marketing strategies and user engagement.

Certifications

- Artificial Intelligence (KPITB)
- Meta Database Engineer (Coursera)
- Python for Everybody (Coursera)
- Machine Learning Introduction for Everyone (Coursera)

Volunteer Experience

MLSA Abasyn University <i>Co-Lead</i> Led training sessions and boot camps, improving technical and professional skills among participants. Organized workshops and events, increasing engagement and knowledge sharing.	Peshawar, KPK <i>March 2023 – June 2024</i>
MLSA Abasyn University <i>Data Science Wing Supervisor</i> Supervised and guided the data science team in executing various data analysis projects. Fostered collaboration and practical learning to tackle real-world data science problems.	Peshawar, KPK <i>November 2023 – June 2024</i>

Recommendations (Abasyn University Peshawar)

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| • Prof. Dr. Abdus Salam
Associate Dean Faculty of Engineering & Computing
<i>dr.salam@abasyn.edu.pk</i> | • Mrs. Uswah Ahmad Khan (FYP Supervisor)
Lecturer @ Computing Department
<i>uswahkhan97@gmail.com</i> |
| • Dr. Syed Irfan Ullah
Associate Professor, HoD Computing Department
<i>syed.irfanullah@abasyn.edu.pk</i> | • Dr. Muhammad Khan Afridi
Assistant Professor @ Computing Department
<i>mohammad@abasyn.edu.pk</i> |

Awards

Outstanding Contribution Award (2023–2024), Department of Computing, Abasyn University Peshawar.

Languages

- English (Professional working proficiency)
- Urdu (Native or bilingual proficiency)