

MUHAMMAD RASHID

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Executive Summary

Data scientist with expertise in data cleaning, machine learning, deep learning & data engineering, software engineering in CI/CD environment. Strong background in Architecture, VLSI Design & hardware engineering.

Education

Clarkson University

Aug 2022 – May 2024

Masters of Science in Applied Data Science

New York, USA

Relevant Courses: Data Mining, Prob & Statistics, Big Data Arch.& Cloud Services, DBMS, Data Warehousing

GIK Institute of Engineering Sciences & Technology

Jan 2018 – June 2020

Masters of Science in Computer Engineering

KPK, Pakistan

Relevant Courses: Artificial Intelligence, Advance Operating Systems, Computer Architecture, Bio Informatics

University of Engineering & Technology, Peshawar

Aug 2012 – Dec 2016

Bachelor of Science in Computer Systems Engineering

KPK, Pakistan

Relevant Courses: Computer Org. & Architecture, Circuits & Systems, VLSI Design, Microprocessors, Embedded Systems, Digital Logic Design, Digital System Design, OOP & Data Structures, Microprocessor Based System Design, Control Systems, Digital Image Processing, Game Development, Algorithms & Computational techniques, Operating Systems

Skills

Programming Languages: Python, R, C#, C++, SQL, Verilog, VHDL, Java, JavaScript

Data Visualization: Tableau, Matplotlib, Seaborn, PowerBI, D3.js, HighCharts, HTML&CSS, Angular

Data Science & Analytics: Machine learning, data modeling, NLP (neural nets), deep learning, data mining, predictive & statistical analysis (Correlation, Multicollinearity - VIF, ANOVA), Tensorflow, Transformers, Hungging face, OpenCV

Development: AWS S3, EC2, databases, ETL, RESTful API's, Flask, Git, Jira, Docker, MYSQL, Hadoop, Hive, Hue, Spark

Engineering: FPGA Architecture, digital simulation (Model Sim), cloud computing, data structures

Certificates: Google Data Analytics, SDLC, Semiconductor Fabrication 101 (Purdue University), AWS CLF-C01-C02, ML

Work Experience

Clarkson University, Dept. of Data Analytics

Sep 2022 – May 2024

Graduate Assistant

New York, USA

- Designed & tested SQL Data API pipelines, with real time data integration, analysis & visualization in CI/CD.
- Developed a Real-time Environmental Data Monitoring System using Python, AWS & Flask to collect, process, visualize air quality & weather data, providing dynamic insights through a RESTful API & interactive web dashboard.
- Developed an image detection technique using flask application to predict using CNN - managed with Git for version control & Jira for project management.
- Developed an E-Commerce data integration and analytics platform to optimize sales & inventory management, leveraging MySQL Server, AWS & machine learning – ETL for structured & unstructured data handling.
- Led data analytics, BI, operations, app development & system analysis recitations for 100+ students.

Emlaak Marketing Ltd.

Jan 2021 – April 2022

Data Scientist

Islamabad, PAK

- Deployed ML & statistical inference models to monitor sales & ad impact real-time & achieved a 20% increase in sales by accurately targeting customers through data-driven insights.

Predictive Analytics Lab, National Center for Big Data & Cloud Computing

Oct 2020 – Dec 2020

Research Assistant

Islamabad, PAK

- Developed a dashboard using ML models to predict & forecast health indicators for Provincial Government.

Intelligent System Lab, Machine Intelligence Research Group (MInG)

Jan 2018 – March 2020

Graduate Research Assistant

GIK Institute, PAK

- Developed a Smart Home Automation System integrating embedded systems, VLSI design & software, enabling real-time control & monitoring through edge computing and a mobile application.
- Designed ConvNets based CNN Pipeline for document bleed-through removal.
- Investigated MRI image pre-processing methods to enhance tumor segmentation with 3D U-Net.

Slingshot Studios, Jolta Technologies

March 2017 – Aug 2017

Internship: Jr. Software Engineer

Rawalpindi, PAK

- As a developer, designed 2 android games with different terrains, icons & screenshots. Applied game physics (game programming) using Unity 2D/3D environment. Tilt Ball Classic 2D & City Parking Hero 3D (500+ downloads).