Ali Nasir

Data Scientist

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PROFESSIONAL SUMMARY

A high-achieving MSc graduate in Advanced Computer Science with Data (Distinction), specialising in leveraging data to solve complex problems. Developed strong collaborative and communication skills by contributing to a key international project. Driven to apply a creative and agile problem-solving approach to CERN's large-scale computing and data initiatives to make a meaningful global impact.

KEY SKILLS

- Innovative and Critical Thinker
- Teamwork and Collaboration
- Adaptability and Eager to learn

- Desire to make an impact
- Project Administration
- Analytical & Problem-solving skills

- Stakeholder Relationship Management
- Agile Working and Time Management
- Cross-cultural communication

EXPERIENCE

SSE plc   05/2024 – 01/2025
Data Scientist (Research Dissertation)   Glasgow, United Kingdom
- Designed an analytical dashboard on Databricks to conduct data analysis on years of turbine data to analyse site and turbine behaviour across multiple wind farms in Scotland.
- Designed and implemented ETL pipeline on Azure Databricks using PySpark to ingest and process 0M+ records/month from 75 turbines, achieving 92.8% high-quality data accuracy
- Monitor and troubleshoot Databricks architecture by decoupling ETL and deep learning workloads into separate clusters, increasing processing efficiency by 60%
- Applied a machine learning algorithm, i.e. LSTM model with attention mechanisms for short-term wind power forecasting, achieving an RMSE of 0.015, outperforming baseline models by 20%
- Communicated daily updates in scrum meetings with the team, proactively resolving 60% of team blockers within 2 hours, enhancing collaboration across 2+ cross-functional teams via Azure Active Directory.

Xloop Digital Services   01/2023 – 04/2024
Data Engineer (Team Lead)
- Built a Generative AI-based product for smart legal document review and signing using Lang Chain, cutting manual review time by 70%, through AI-driven summarisation
- Implemented Azure Data Factory pipelines to automate ingestion of hospital data from cloud-based APIs into Azure Data Lake Storage (ADLS), increasing data refresh frequency by 50%
- Processed and transformed over 5 million patient records using PySpark on Azure Databricks, improving data quality and reducing batch processing time by 75%
- Designed a star-schema model in Azure Synapse Analytics to support real-time querying of patient metrics, reducing average query time by 60%, enabling insights for healthcare analytics teams
- Led weekly sprint meetings to ensure project execution and drive timely delivery of key milestones throughout the project lifecycle, increasing client satisfaction by 90% based on the CSAT.

PILL   06/2021 – 12/2023
Data Analyst
- Developed an analytical Power BI dashboard to centralise and visualise research data, reducing literature search time by 75% and accelerating data-driven decision-making in qualitative research
- Engineered a Power BI dashboard using real-time hospital database metrics to track KPIs across departments, improving patient care response metrics by 70%
- Designed a dynamic Looker dashboard visualising burn injury trends and severity, enhancing stakeholder and public awareness by 75% based on the Pre- and Post-Awareness Surveys
- Developed an AI chatbot to provide real-time safety plans during mental health crises, successfully aiding up to 90% of patients in managing their mental health emergencies.

EDUCATION

University of Strathclyde   2024 – 2025 | Glasgow, UK
MSc in Advanced Computer Science with Data (Distinction)
- Core Modules: Business Analytics, Machine Learning for Data Analytics, Advanced Software Engineering, Deep Learning Theory and Practice
- Dissertation: Conducted a research dissertation with SSE plc on "Improving Data Quality for Wind Power Forecasting"
- Improving data utilisation across multiple wind sites in Scotland

University of Karachi   2018 – 2021 | Karachi, Pakistan
BS in Software Engineering (Distinction)
- Core Modules: Relational Database Management System (RDBMS), Artificial Intelligence in Software Engineering, Software Project Management, Data warehousing & data mining
- Dissertation: Developed a Recruitment Management Application Tracking System that reduced manual tasks by 60% and enhanced recruitment efficiency

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LANGUAGES:

English   **Urdu**
(Fluent)   (Fluent)

Hindi
(Fluent)

COMPETITION AND ACHIEVEMENT

Strath Inspire Entrepreneur
University of Strathclyde
- Lead the development of a decentralised energy trading concept, enabling local communities to store and sell surplus solar energy, empowering clean energy markets, and contributing to the decarbonization of the environment

Kaggle Competition
Jane Street Real-Time Market Data Forecasting
- Jane Street Real-Time Market Data Forecasting: Utilised XGBoost, CatBoost, and LSTM models to predict market responder behaviour, showcasing proficiency in time-series forecasting and real-time data analysis.

CERTIFICATES

Data Engineering
Introduction to
Programming Learning Data
Analytics
Emiratus Using Python
LinkedIn
Microsoft

VOLUNTEERING EXPERIENCE

- Volunteered on a PILL research project focused on women's mental health.
- Volunteered on a PILL research project addressing paternal postpartum depression by providing first aid to patients.