





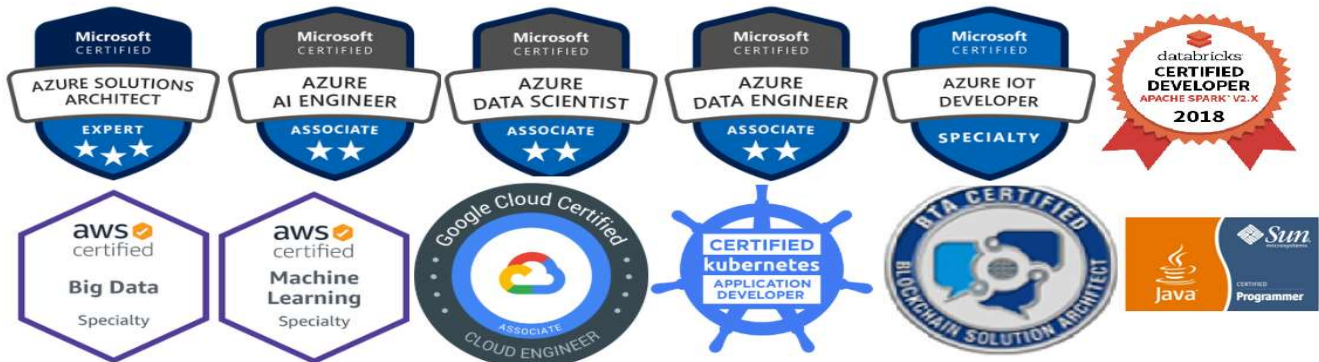


# Dr. Farrukh Akhtar

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## Summary







- **Security Clearance** - Holding NV1 Security Clearance.
- A globally accomplished technology leader with 20 years of experience driving innovation in Cloud, Data Science, Big Data, and Blockchain across diverse industries.
- Proven success delivering large-scale applications and AI-driven solutions across major global markets, including the USA, Australia, Malaysia, Singapore, Germany and Dubai.
- Recognized as a **Databricks Champion** (ranked No. 8 worldwide) and ranked No. 2 globally for international certifications, reflecting an unwavering commitment to technological excellence and leadership.
- Holds an exceptional academic and professional record, including **10 academic degrees** (4 doctoral degrees and 5 master's degrees), **45+ international certifications**, and **over 200 specialized MOOCs and nanodegrees** from leading global institutions.
- Passionate about pushing the boundaries of AI, Data, and Blockchain innovation through continuous learning, strategic thinking, and impactful solution delivery.



## Employment Record

Date	Employer	Position Held
April 2022 – Present	Dynxsoft	Solutions Architect – Data and AI
March 2021- April 2022	Accenture	Tech Architect Delivery Manager – Data and AI
June 2018 – March 2021	Avanade	Solutions Architect - Data Engineering, Analytics
Feb 2017 – March 2018	Hewlett Packard Enterprise	Manager - Solutions Architect, Analytics
April 2014 – Feb 2017	TIMWE Tech	Enterprise Solutions Architect
March 2013 – Jan 2014	Vodafone	Solutions Architect
May 2011 – Feb 2013	ASIT Solutions	Solutions Architect
June 2008 – April 2011	Lin Scan Advance Pipeline	Development Head - ERP
Nov 2006 – May 2008	Logiciel Cube	Senior Software Engineer
Feb 2006 – Nov 2006	InfiniLogic	Software Engineer

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## Academic Attainments







Degree	Year	University
DBA (Doctor of Business Administration) – Machine Learning & Artificial Intelligence	2023	UCAM Universidad Católica San Antonio de Murcia - Spain
Ph.D. in Computer Science – Specialization in Artificial Intelligence	2018	European Global School – France
DBA (Doctor of Business Administration) – Information Systems	2023	Vern University - Croatia
DBA (Doctor of Business Administration) – Data Science	2023	Brittany University - France
MSC – Data Science and Artificial Intelligence	2022	University of London – United Kingdom
MSC – Digital Currencies, Blockchain	2020	University of Nicosia – Cyprus
MBA – Information Systems	2021	University of Wales Trinity Saint David – United Kingdom
MBA – Organizational Leadership	2021	University of the West of Scotland – United Kingdom
Bachelor of Science in Computer Engineering	2005	Sir Syed University of Engineering & Technology - Pakistan



## International Certifications

Certifying Body	Certification
Databricks	Databricks Champion (8 <sup>th</sup> in the world)
	Databricks Certified Generative AI Engineer Associate
	Databricks Certified Developer - Apache Spark 2.x for Scala
AWS	AWS Certified Machine Learning – Speciality
	AWS Certified Big Data – Speciality
Google	Google Certified Associate Cloud Engineer
Microsoft	Microsoft Certified Azure DevOps Engineer Expert
	Microsoft Certified Azure Solution Architect Expert
	Microsoft Certified Azure Security Engineer Associate
	Microsoft Certified Azure Developer Associate
	Microsoft Certified Azure AI Engineer Associate
	Microsoft Certified Azure Data Scientist Associate
	Microsoft Certified Azure IoT Developer - Speciality
	Microsoft Certified Azure Cosmos DB Developer Speciality
	Microsoft Certified Azure Data Engineer Associate
	Microsoft Certified Azure Database Administrator Associate
	Microsoft Professional Program – Big Data
	Microsoft Certified Solutions Expert – Data Management & Analytics
	MCSA – Microsoft Azure - Cloud Platform

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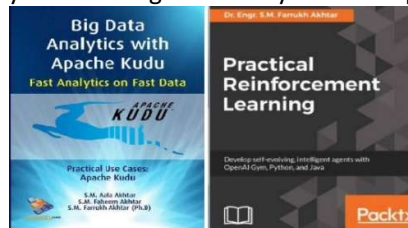
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Cloud Native	Kubernetes Certified Application Developer (CKAD)
Blockchain Alliance	Certified Blockchain Security Professional
	Certified Blockchain Ethereum Developer
	Certified Blockchain Business Foundation
	Certified Blockchain Hyperledger Developer
	Certified Blockchain Solution Architect (CBSA)
IBM	IBM Certified Big Data Architect
	IBM Certified Solution Developer – XML and Related Technologies
Sun Microsystems	Sun Certified Java Programmer (SCJP)
Oracle	Oracle Certified Professional – 9i (OCA)
	Oracle Certified Associate – 9i (OCA)
Microsoft	Microsoft Certified Solution Developer (MCSO.NET)
	Microsoft Certified Application Developer (MCAD.NET)
	Microsoft Certified Professional (MCP)
Udacity	Deep Learning Nano Degree
	Machine Learning Engineer Nano Degree
	Computer Vision Nano Degree
	Deep Reinforcement Learning Nano Degree



## Publications







- Author of a best seller book on Artificial Intelligence and Machine Learning title "Practical Reinforcement Learning" - 467 pages: ISBN - 9781787128729.  
<https://tinyurl.com/ycjenzkm>
- Author of book on Big Data and Machine Learning title "Big Data Processing Using R and Spark" – 360 pages.
- Author of book on Big Data Analytics title "Big Data Analytics with Apache Kudu" – 200 pages



## Professional Experience (Selected Projects)







Date, Location(s)	Project Role	Project Description
2025 – Australia	Data Architect	<b>Chevron Advanced Analytics Platform - Global Data Model Products</b>  Data model products were developed for Chevron's Data Analytics Platform to support Mobile Inspections, Engineering Documents, and Equipment management. These models were designed using Erwin as

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		<p>standardized and scalable global products for Chevron Global Data Models. Databricks on Azure was utilized for efficient data processing and analytics. DevOps practices and Azure Data Factory were implemented for seamless CI/CD and automated data pipeline orchestration. These efforts enhanced data management and improved decision-making across key business areas.</p> <p>Main Technologies</p> <p>Azure, Databricks, Erwin, ADF, DevOps</p>
2024 - Australia	Solutions Architect - Data and AI	<p><b>Education Victoria - Generative AI-Driven Data Retrieval</b></p> <p>Developed an AI-powered information retrieval system for Education Victoria using Generative AI, OpenAI, and the LangChain framework. The system integrates with Azure, utilizing Function Apps for seamless data processing and Retrieval-Augmented Generation (RAG) to enhance response accuracy. It gathers information from multiple sources, allowing users to retrieve relevant insights through natural language prompts. LangChain optimizes AI interactions with structured and unstructured data, improving retrieval efficiency. This solution empowers educators and administrators with quick, precise insights, enhancing decision-making and operational effectiveness.</p> <p>Main Technologies</p> <p>Azure, Open AI, LangChain, RAG</p>
2024, Germany	AI Architect	<p><b>Sophie.ai – Generative AI-Powered Knowledge Retrieval for Rabobank</b></p> <p>Sophie.ai is a Generative AI solution for Rabobank, built on Azure, OpenAI, and LangChain to enable intelligent data retrieval. It integrates with data warehousing solutions and Confluence pages, using Function Apps for real-time queries and Retrieval-Augmented Generation (RAG) to enhance response accuracy. The system processes natural language queries, retrieves relevant data dynamically, and delivers precise insights, streamlining knowledge access across the organization.</p> <p>Main Technologies</p> <p>Azure, Open AI, LangChain</p>
2024, Australia	Data Architect	<p><b>Suncorp Bank and Insurance – Data Lake Segregation Rules</b></p>

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		<p>Developed and implemented segregation rules for Suncorp's Data Lake to ensure secure and efficient handling of banking and insurance data. Designed logical and physical segregation strategies, including tiered zones (Raw, Curated, and Consumption) for structured and unstructured datasets. Established role-based access controls (RBAC), data encryption, and governance frameworks to comply with regulatory standards such as APRA. Enhanced data lineage and cataloging for improved traceability and operational efficiency.</p> <p>Main Technologies</p> <p>Azure, Databricks</p>
2023, Australia	Data Architect	<p><b>Education Victoria - Enterprise Data and Analytics Platform</b></p> <p>Develop the modern centralised cloud-native platform that enable the modernisation of many on-premises data management solutions such as the Enterprise Reporting and Business Intelligence (ERBI) data warehouse and Edu-Masters, along with several other legacy reporting databases.</p> <p>Main Technologies</p> <p>Azure, Synapse</p>
2023, Australia	Data Architect	<p><b>Enterprise Data Platform - Bank of Australia</b></p> <p>Design and develop Bank of Australia data platform on Azure Databricks. Data Ingestion from 27 data sources with over 500 objects.</p> <p>Main Technologies</p> <p>Azure, Databricks</p>
2022, Australia	Solutions Architect	<p><b>Optus – Unified Data Platform</b></p> <p>Take part in architecture review board for building Unified Data Platform for Optus. The solution use Azure Cloud and Databricks lake house architecture. ML flow used for the various machine learning use cases.</p> <p>Main Technologies</p> <p>Azure, Databricks, ML Flow</p>
2022, Australia	Data/ML Engineer	<p><b>Rabobank – KYC App</b></p>

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		<p>A year long project at an international bank based in Sydney building a fully developed KYC/MDM solution involving an ensemble of computer vision models and a React front-end with cosmos DB serving the transactional data.</p> <p>Main Technologies</p> <p>Azure, Databricks, ML Flow</p>
2021, Australia	Solutions Architect	<p><b>Energy Australia – 5 sec Settlement</b></p> <p>Implement the 5 seconds settlement as per the government regulation. Databricks lake house architecture is used on top of AWS cloud for the big data processing.</p> <p>Main Technologies</p> <p>AWS, Databricks</p>
2020, Australia	Data Architect	<p><b>Coles - Product to Order Stream</b></p> <p>MRL is a Coles data cache, it leveraged across multiple use cases for services and core merchandise data for Coles group. MRL provide a degree of abstraction and decouple source system from consumers of merchandise data.</p> <p>Main Technologies</p> <p>Microsoft Azure, Databricks, Cosmos DB</p>
2019, Australia	Data Architect	<p><b>Queensland Energy – Metering Solution</b></p> <p>Over 1 million smart energy meters generate data and send it every 5 mins interval to Azure IoT hub. Azure Data Factory is used for data orchestration. Data processed through Azure IOT hub to Azure Data lake. Databricks is used for data transformation and later it is moved to SQL data warehouse and Cosmos DB. MLOps also configured which allow machine learning models to automatically train and publish endpoints through Azure ML.</p> <p><b>Main Technologies</b></p> <p>Microsoft Azure, SQL DW, Databricks, Cosmos, TensorFlow</p>
2020, Australia	ML Engineer	<p><b>Voice Enabled – CRM – Project Jarvis</b></p>

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		<p>Salesperson will use mobile app to create the lead through voice commands. Azure Cognitive – Speech to text (STT) used together with Language understanding (LUIS) to recognize intents. The lead record finally pushes to CRM to create lead.</p> <p><b>Main Technologies</b></p> <p>Azure Cognitive, Azure LUIS, Azure Speech SDK.</p> <p><b>Demo Video</b></p> <p><a href="https://youtube.com/WTW3N_MCFIA">https://youtube.com/WTW3N_MCFIA</a></p>
2019, Australia	ML Engineer	<p><b>Touchless User Interfaces for Melbourne Airport</b></p> <p>Due to Covid-19 people are scared to use public touch screens/buttons. Developed hand gesture and voice automated touchless screens. Used Intel Real Sense Depth cameras and deep learning to detect hand gestures. Microsoft Speech SDK and LUIS models to recognize speech commands. Azure DevOps used for the CI/CD development and release pipelines.</p> <p><b>Main Technologies</b></p> <p>Deep Learning, Computer Vision, Real Sense Depth Cameras, Azure DevOps.</p> <p><b>Demo Video</b></p> <p><a href="https://www.youtube.com/watch?v=9EY3Ti6dU1I&amp;t=19s">https://www.youtube.com/watch?v=9EY3Ti6dU1I&amp;t=19s</a></p>
2019, Australia	ML Engineer	<p><b>Panasonic IoT Edge Platform</b></p> <p>Robots use computer vision to detect several devices in the assembly floor. The inference model deployed on edge devices. Use deep learning and computer vision to develop the models and Azure Kubernetes Services to manage all the microservices. Use MLOps process for CI/CD pipelines where the model will auto train and publish the artifacts. Azure IoT Hub is used to manage IoT devices, device provisioning handled through Azure DPS service.</p> <p><b>Main Technologies</b></p> <p>Azure IoT Hub, DPS, Deep Learning, Computer Vision, Azure Cognitive, Azure DevOps.</p>
2018, Australia	MLOps Engineer	<p><b>MLOps Auto Provision Resources</b></p> <p>The aim of this project is to make it easy for Data Scientists to be able to easily provision all the resources needed to replicate, explore, and potentially build from our project on an inner source version. This project uses state-of-the-art Microsoft machine learning technology, and</p>

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		<p>development teams that start with azure machine learning services will benefit from it. All the base line azure machine learning and related services and best practices of MLOps are set automatically by the project.</p> <p><b>Main Technologies</b></p> <p>Azure DevOps, Azure Machine Learning</p> <p><b>Demo Video</b></p> <p><a href="https://www.youtube.com/watch?v=Iw3cIy3O8bY">https://www.youtube.com/watch?v=Iw3cIy3O8bY</a></p>
2018, Australia	Data Architect	<p><b>Telstra – BI2020</b></p> <p>Design and develop Telstra BI2020 project. The plan to move the Teradata data warehouse to Azure SQL data warehouse. The data warehouse connected with 200+ source data and over 350 tera byte of data. Transformation of data processed on Cloudera for big data environment. Implementing various use cases using Spark, HBase, Hive, machine learnings etc.</p> <p><b>Main Technology Used:</b></p> <p>Azure, Cloudera, SQL Data warehouse, Snowflakes</p>
2017, Malaysia	Data Architect	<p><b>Telecom Malaysia – DiCE Portal</b></p> <p>Design and develop Telecom Malaysia DiCE Portal that is connected to 25+ backend systems. It exposed to public to schedule appointment, paying bills, order management, reseller module etc.</p> <p><b>Main Technology Used:</b></p> <p>AWS App Services, Java, Amazon Aurora, Amazon Redshift</p>
2016, Malaysia	Solution Architect	<p><b>Archiving with Predictions - Big Data</b></p> <p>50+ terabyte of emails transferred into Hadoop commodity hardware on real time, It first converts the email into sequence files (compression up-to 5 times less size) recovered search results within 7-10 seconds. By applying machine learning algorithms, we are able to collect so many useful predictions based on that data.</p> <p><b>Main Technology Used:</b></p> <p>AWS, Cloudera, TensorFlow, Keras</p>

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2016, Malaysia	Solution Architect	<b>Call Center Predict Customer Engagement - Big Data</b>  This project designed for call center. They have petabyte of voice call recordings in their storage. Moved all the call recordings into Hadoop commodity hardware, process audio files, convert speech into text and apply machine learning algorithms to predict customer engagements with operator.  <b>Main Technology Used:</b>  AWS, TensorFlow, Keras
2013, Germany	Senior Developer	<b>Vodafone Group Lifecycle</b>  The project developed and implemented on site Vodafone, Dusseldorf, Germany. Lifecycle currently retains customer data indefinitely. The retention of data can only be justified for business purposes; therefore a configurable batch job needs to be integrated to remove data (millions of records) from the three main Life cycle data stores of Customer Registry (Oracle, Linux), LDAP (Sun Solaris) and Discovery (Oracle, Linux).  <b>Main Technology Used:</b>  Java, Oracle, Shell Scripting
2008, Dubai	Project Manager - ERP	<b>Enterprise Resource Planning (ERP) &amp; Control System</b>  Following modules are developed from scratch and successfully implemented in house in LIN SCAN Advance Oil & Gas Pipeline Inspection Company FZE Hamriyah Free Zone, Sharjah to meet requirements for maintaining and controlling integrated business processes. ERP System is running / implemented in 23 countries includes all branches and site offices worldwide. <ul style="list-style-type: none"><li>• HR Management System</li><li>• Biometrics Attendance System</li><li>• Payroll System</li><li>• Financial Management System</li><li>• Assets Management System</li><li>• Inventory Control System</li><li>• Procurement / Purchase System</li><li>• Sales Management System</li><li>• Projects Management System</li><li>• Tool Management System</li><li>• Logistics Management System</li><li>• Production / Manufacturing Management</li></ul>

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- Task Management System
- Requisition System
- Meetings Management System
- Personalization of User Screens
- Fast Full Indexed Search System
- Quality Control Check and Monitoring

## **Main Technology Used:**

Dot Net Technologies, SQL Server 2005