Khalil Abu Mushref

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❖ **Council of Engineers ID:** 983904 ❖ **Nationality:** Jordanian

PROFISSIONAL SUMMARY

Data scientist and IT Business analyst with expertise in Python, SQL, and advanced ML, with Master's in Artificial intelligence. Skilled in Fintech, healthcare, and business intelligence, with certifications in Cloud, Scrum, Power BI, and Databricks. Proficient in leveraging tools like Databricks and Power BI to drive data-driven decisions, optimize operations, and build predictive models.

WORK EXPERIENCE

Cloud Solutions   **Sep 2023 - Present**

IT Business Analyst & Product Owner– Java/Python/AI/Tableau   *Riyadh, Saudi Arabia*

- **Streamlined Requirements**: Developed a process for gathering business requirements, producing 1,200+ pages of documentation, and cutting project delivery time by 40%.
- **Financial Reporting Enhancement:** Built a Microsoft Power-based framework, boosting metric visibility with 100+ dashboards, including 25+ AI-driven insights for smarter decisions.
- **Employee Training:** Trained 8+ employees in BI systems and created a Business Analyst training program, boosting efficiency

Pixelated   **Jan 2021 - Sep 2023**

IT Senior Business Analyst & BI Developer– Python/AI/ Power BI   *Amman, Jordan*

- **Launched a tailored training program:** for analysts, strengthening team capabilities in BI and operations.
- **Improved data accuracy and consistency:** in reporting by implementing standardized documentation practices.
- **Facilitated regular workshops for stakeholders:** fostering a data-driven culture and enhancing project buy-in.

Virtue   **Apr 2022 - Aug 2023**

Data Scientist | Software Engineer – Java/Python/AI/TensorFlow   *Remote, USA*

- **Architected and implemented the back-end services:** using the Java Spring framework, ensuring efficient data processing and secure interactions with the machine learning models.
- **Developed and fine-tuned a machine learning model:** to accurately predict the severity of patient complications based on clinical data, enhancing the decision-making process for healthcare professionals.

Council of Engineers Association   **July 2020 - Jan 2021**

Data Scientist – Python /AI/ Power BI   *Amman, Jordan*

- **Visualization and Reporting:** Created visualizations and dashboards that translated complex data into clear, actionable insights, supporting the Council's decision-making processes.
- **Technical Documentation:** Authored detailed technical documentation for data models and algorithms, ensuring reproducibility and knowledge sharing across teams.

Digital Cash.   **Jun 2019 - July 2020**

Software Data Scientist   *Amman, Jordan*

- **Software Development:** Built and deployed an app, focusing on RESTful services with Spring Boot in an agile setting.
- **Data Processing:** Developed data pipelines for large datasets, optimizing flow and integration.
- **Data Analysis:** Extracted insights from application data to drive improvements.

NOTABLE PROJECTS

[Business intelligence consultant system (Yadree)](Business-intelligence-consultant-system) | *Python, Java, AWS, TensorFlow, scikit-learn, PyTorch, Docker*   **2024**

- Deployed and integrated multiple backend systems (Java and Python AI) that successfully communicated via REST APIs and managed database integration with repository patterns.
- Utilized advanced imputation techniques for handling missing values, performed comprehensive data cleaning, trained multiple machine learning models, and implemented model explainability to identify key predictive factors.
- Leveraged ensemble learning techniques, compared model performances, and deployed the optimal model as a service, enabling real-time predictions accessible through API requests.

KPI on the Fly | *Python, Java, AWS, Apache spark, Apache superset, Apache Echarts ,Llama 2.0, PyTorch, ML*   **2023**

- ▪ Developed a backend system with robust REST API communication and seamless database integration via repositories.
- ▪ Implemented chart generation for non-technical users through SQLFlow, allowing comprehensive database mapping and integration of LLAMA 2.0 for enhanced user experience with large language models.
- ▪ Addressed missing data through advanced imputation techniques, executed data cleaning, trained multiple predictive models, and applied explainability methods to highlight significant predictive factors.

SautNote | *Python, Java, AWS, Whisper 3.0, GPT 3.5, ML, Docker, Kubernetes*   **2023**

- ▪ Deployed a backend system with efficient REST API interaction and database integration using repositories.
- ▪ Implemented speech-to-text capabilities, utilizing Whisper 3.0 and GPT-3.5 to process audio inputs for streamlined user interaction.
- ▪ Managed missing values, conducted thorough data cleaning, trained several models, and applied explainability techniques to clarify influential predictive features.

Virtue | *Spring Boot, Java, Spring Cloud, Git, REST API, Docker*   **2022**

- ▪ Developed a health application to connect patients and therapists, using a hierarchical categorization system based on real-life health professional queries.
- ▪ Supported a charitable mission to make mental health care accessible across the Middle East, creating a platform to bridge gaps in mental health support.

EDUCATION

UKM University   **Current**

M.S. Artificial intelligence (Data science)   *Selangor, Malaysia*

- ▪ Research in Personalized Oncology: Machine Learning-Driven Predictions of Cancer Treatment Outcomes and Drug Responsiveness

Monash University   **Current**

M.S. Business administration (MBA)   *Melbourne, Australia*

- ▪ Specialized in IT to enhance leadership and strategic skills

University of Jordan

B.S Computer Engineering | Minor in Machine learning, Minor in Algorithms, Minor in Advanced Databases.   *Amman, Jordan*

- ▪ Research in Mental health application: Machine Learning-Driven Predictions of Mental health diagnosis & treatment and outcomes

SKILLS

- ▪ **Skills:** Solving complex problems; Data science; Root Cause Analysis; Software Engineering; Data Structures; Agile;
- ▪ **Languages:** Java; Python; SQL; JavaScript; C++; C#.
- ▪ **Technical Skills:** Spring Boot; Docker; AWS; Git; CI/CD; RESTful API; Postman; TensorFlow; Scikit-learn; PyTorch; PySpark; spaCy; NLTK.
- ▪ **Certifications:** NVIDIA Accelerated Data Science; Databricks Certified Data Engineer; AWS Solutions Architect; Professional Scrum Master Scrum.Org; Tableau Certified Data Analyst; Alteryx Designer Expert