Ali Ibrahim Ali Abuharb

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Education

BS In Management Information Systems - **King Fahd University of Petroleum & Minerals**   (May 2020)

- Overall GPA: 3.03/4 (Honor)
- Major GPA: 3.56/4 (Honor)

Experience

Sr. Machine Learning Engineer – Lean, Advanced Analytics Department, Full-Time   (Apr,2023-Present)

- **Led Resources** like data engineers, ML engineers, data analysts, developers, and business analysts on many **Data Projects**
- Worked on various **NLP** projects that include text cleansing, text preprocessing, text classification, NER, text matching, text similarity, language models, and participated in developing **NLP Framework**
- Worked in **Images Data** projects that include image classification, image segmentation, object detection, image preprocessing, and created a **Medical Computer Vision Framework**
- Built a complex rule based **DRG Engine** that has hundreds of rules to assign and unify prices of procedures in the Saudi health sector using Alteryx for DRG version 1 and rebuild it using Python DRG version 2

Machine Learning Engineer – Lean, Advanced Analytics Department, Full-Time   (Dec,2020-Mar,2023)

- Built **Data Detection Engine for Semantic Data Type Detection** with AI & NLP using Alteryx and Python
- Worked on many **Machine Learning** projects that predict diagnoses like Diabetes & Hypertension using many models/algorithms
- Worked on a **Forecasting Model** to predict the demand and supply of drugs
- Created many **Data Engineering Data Flows, ETLs, and Database Queries** that helped business units in their operations using Alteryx and SQL
- Built a **System Dynamics Simulation Model** to simulate hospitals acquired infection using Anylogic
- Worked on **Web Scraping** tasks to gather several types of data from many public websites
- Automated **Data Extraction and Data Structuring** tasks of thousands of complicated formats excel files and other flat files using Python and Alteryx
- Participated in the **Data Quality Scientific Paper**
- Developed an **API Application** that manages all tokens and calls automatically with a sample user interface to enable non-technical units to use the API services using Alteryx and SQL
- Developed the **Data Quality Engine** product**,** planned the product development, and helped in creating the product business case using Alteryx

Data Quality Specialist – Ministry of Interior   (Jan,2023-Jun,2023)

- Planned and developed **Data Quality Engine** and assessed data quality index for all MOI sectors using Alteryx

- Worked on ETLs to transfer the data from MOI data sources to the data quality engine using Alteryx

- Presented 12 workshops to 12 sectors about the Data Quality Maturity Index

Data Analyst – Lean, Internship   (Jun,2019-Dec,2019)

- Generated many data flows, reports, and dashboards for Covid-19 projects using SQL and PowerBi

Data Analyst – Lean, KFUPM Coop Program   (Aug,2020-Nov,2020)

- Developed a **Data Quality Engine** that assesses the quality of the internal company data using T-SQL

- Studied and reported a full **Website Customer Behavior Analysis**

- Worked on different data science related tasks from **Data Gathering, Cleansing, Modeling, To Data Visualizing and Dashboarding**

Activities

- Data Science Influencer - **LinkedIn**   (2018-Present)

- Attended Alteryx Inspire Conference in Amsterdam – **Alteryx**   (2022)

- Attended Open Data Science Conference in San Francisco – **ODBS**   (2022)

- Shared my [Experience](#) as a motivation to Saudi youth - **Misk Foundation**   (2021)

- Speaker, ["Automating Data Quality Metrics"](#) - **SIPHA Scientific Conference**   (2021)

- Reached the finals in Machine Learning Hackathon – **Thakaa Center**   (2020)

- Member – **Riyadh and khobar PyData Community**   (2020)

- Participated in the Open Data Datathon – **Saudi Data Community & SFDA**   (2020)

- Won the First place in Smart Transactions Track – **KFUPM FinTech Regional Hackathon**   (2019)

- Member – **Saudi Data Community**   (2019)

- Won the Second place in Data Science Track - **MIT Health Hackathon**   (2018)

Courses

- Deep Learning 5 months Specialization – **Coursera, Deep Learning.ai** (2021)
- Spark and Python for Big Data with PySpark – **Udemy** (2021)
- Introduction to Apache NiFi|Cloudera DataFlow|HDF 2.0 – **Udemy** (2021)
- Scientific Computing with Python – **freeCodeCamp** (2021)
- Nanodegree, Machine Learning - **Misk Udacity** (2020)
- Nanodegree, Data Analyst - **Misk Udacity** (2019)
- 70-461, 761: Querying Microsoft SQL Server with Transact-SQL – **Udemy** (2019)
- Microsoft Power BI - Up & Running With Power BI Desktop – **Udemy** (2019)
- Practical Machine Learning on H2O – **Coursera** (2019)
- Alteryx Bootcamp – **Udemy** (2019)
- Certified Google Analytics IQ - **Google** (2019)
- Advanced Google Analytics – **Google Analytics Academy** (2019)
- Google Analytics for Beginners – **Google Analytics Academy** (2019)
- Digital Marketing Track – **AstroLabs** (2019)
- Advanced Features in Excel – **KFUPM Student Success Center** (2019)
- Maharat Online Marketing program – **Google** (2018)
- Full Stack Developer Track - **Udacity One Million Arab Coders Initiative** (2018)
- Build Responsive Real-World Websites with HTML5 and CSS3 course – **Udemy** (2018)
- SEO: Website Optimization & Load Speed course – **Udemy** (2018)
- Microsoft Project For Software Development course – **Udemy** (2018)
- Entrepreneurial Emerging Leaders program - **KFUPM Entrepreneurship Institute** (2017-2018)
- International Certificate in IT Skills Foundation - **Cambridge International Examination** (2015-2016)
- Many business courses - **Orient House Academy, Jordan** (2015)

Skills

Technical Skills:

- Deep Learning, Machine Learning, NLP, Computer Vision

- Python

- PySpark

- SQL, T-SQL, PL-SQL

- Alteryx

- Data Quality

- Data Engineering

- Prompt Engineering

- Microsoft PowerBi, Tableau

- HTML5, CSS3

- Google Analytics

- Minitab

- Anylogic

- Back-End Development

- Data Analytical/Calculation Engines

- Statistics

Soft Skills:

- Leadership

- Project Management

- Time Management

- Communication

- Teamwork

- Problem-Solving

- Emotional Intelligence

- Critical Thinking