

# Hager Elkahlawy

Bigdata Engineer

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## Summary

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Big Data Engineer with 2 years of experience in building and optimizing scalable data pipelines. Successfully processed and analyzed large-scale datasets to improve data efficiency and reporting accuracy. Skilled in Hadoop, Spark, Python, and SQL.

## Career Objective

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I am a **Big Data Engineer** with experience in working with large-scale datasets and building efficient data pipelines. Skilled in **SQL, Python, and Apache Spark**, I focus on data processing, ETL pipeline development, and distributed data systems. I have experience working with cloud platforms and big data tools to transform raw data into scalable and reliable data solutions that support data-driven decision-making.

## Work Experience

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### Big Data Engineer – Software Company | Jan 2024 – Present

Designed and maintained scalable data pipelines processing over 3TB of data daily using Hadoop and Spark. Improved data processing performance by 25% through Spark optimization and efficient query tuning. Developed ETL workflows using Hive and Python, reducing data preparation time by 30%. Collaborated with development teams to deploy data solutions in production environments, ensuring 99% data reliability.

## Education

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### Bachelor of Engineering – Computer Engineering

The Open University, UK

Graduation Year: 2025

GPA: 2.8 / 4.0

## Certifications & Training/Courses

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### Big Data Analytics Professional Certificate

Coursera | 2024

Hadoop, Spark, Hive, Data Pipelines

### Artificial Intelligence & Machine Learning Certificate

Udemy | 2024

AI Algorithms, Neural Networks, Python ML

### Data Science & Big Data Tools Training

IBM | 2023

Python, SQL, Data Visualization, Big Data Tools

## Skills

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### Technical Skills

**Big Data Tools:** Hadoop (Advanced), Spark (Advanced), Hive (Intermediate)

- **Programming & Scripting:** Python (Advanced), SQL (Advanced)
- **Data Processing & Analytics:** ETL pipelines (Advanced), Data Cleaning (Advanced), Data Visualization
- **Machine Learning & AI:** Neural Networks (Intermediate), ML Algorithms (Intermediate)

## Language Skills

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- English (Fluent)
- Arabic (Native)
- German(good)

## Soft / Personal Skills

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- Problem Solving
- Analytical Thinking
- Team Collaboration
- Time Management

## Projects & Awards

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### **Graduation Project – Diabetic Retinopathy Detection Web System | 2025**

- Developed a web-based AI system to detect diabetic retinopathy from retinal images.
- Leveraged Big Data tools (Hadoop, Spark, Hive) for processing large-scale datasets efficiently.
- Achieved high prediction accuracy, enabling early diagnosis and better patient outcomes.
- Built scalable data pipelines to manage and analyze thousands of retinal images daily.

### **Big Data Pipeline Optimization Project | 2024**

- Established a robust ETL pipeline capable of handling 3TB of data daily.
- Optimized Spark workflows to improve data processing performance by 25%.

### **Awards (Optional)**

- Excellence in Big Data Analytics Award – The Open University, 2024 (*if applicable*)

## Extracurricular Activities / Volunteering Experience

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### **AI & Data Science Student Club – The Open University, UK | 2023–2025**

- Participated in workshops and hackathons on Big Data and Machine Learning.
- Collaborated with peers to develop mini AI projects and data analytics challenges.

### **Tech for Good Volunteer – Local Charity Organization | 2024**

- Assisted in analyzing community data to optimize resource distribution.
- Developed simple dashboards using Python and SQL to visualize project outcomes.

### **Online Coding & Data Competitions | 2023–2025**

- Competed in Kaggle challenges and university hackathons focused on AI and Big Data problems.
- Achieved top 10% ranking in university-level data analytics competitions.