

Farouk Ibrahim, M.D., MSc (cand.)

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Profile

Clinician and data-focused researcher with 9+ years' experience across psychiatry, learning-disability services and digital health. Comfortable supporting research from searches to analysis and plain-English write-ups; strong hands-on skills in Python, R, SPSS, SQL and Spark. Led an EHR rollout and founded a Digital Information Centre to bring data into day-to-day decisions; currently completing an MSc in Big Data Technologies, with a dissertation exploring data-driven approaches to mental-health interventions. Fluent in English and Arabic; used to MDT work and accurate record-keeping.

Key strengths

- **Research support & evidence work:** database searches, data analysis, clear reporting aligned to project needs.
- **Stakeholder & PPI engagement:** liaison with clinicians, educators and third-sector partners.
- **Data & digital:** Python, R, SPSS, SQL, Spark; careful handling and secure storage; organised documentation.
- **Communication & UX mindset:** plain-English summaries; background in UX/UI testing to keep outputs user-centred.
- **Organisation & reliability:** plans against project milestones; proactive CPD with relevant certificates.

Technical & Professional Skills

- **Programming / Analytics:** Python, R, SQL/HiveQL, MATLAB; Jupyter/Notebooks; SPSS.
- **Big-data & platforms:** Apache Spark (PySpark), Hadoop, Hive; Ubuntu/VMware; HDFS; basic Bash.
- **ML & DS:** feature engineering; classification (LR, RF, SVM); clustering (k-means/DBSCAN); model validation; PCA/t-SNE; streaming/micro-batch concepts.
- **Web/Software:** React.js; Full-Stack/Web development (Udacity nanodegrees).

- **Healthcare informatics:** EHR implementation; KPI dashboards; outcomes/audit reporting.
- **Languages:** English (full professional), Arabic (native/bilingual).

Education

MSc Big Data Technologies (in progress, 2024–2025) — University of East London
Modules include Big Data Analytics & Platforms, AI & Machine Learning, Data Ethics, Cloud Computing, Visualisation. Dissertation: *Exploring data-driven approaches to mental-health interventions*.

M.B.B.Ch (Bachelor of Medicine & Surgery) — Mansoura Faculty of Medicine, Egypt (2006–2013).

Licences & Professional Qualifications

- **Egyptian Ministry of Health** — Registered Qualified Medical Practitioner (No. **264755**), 12-03-2015.
- **Basic Life Support (AHA)** — Provider, 09-12-2018; verification **2f3e11cc7302**.
- **Immediate Life Support (ERC)** — 14-02-2019; verification **ERC-901-074304**.
- **OET – Medicine** — L:B, R:B, W:B, S:B (CBLA), 03-11-2018; candidate **200013491**.

Certifications & Professional Development (selected)

- **The Data Science Course 2024: Complete Data Science Bootcamp (Udemy, 2024)** — maths, stats, Python, ML & DL.
- **Brilliant.org (2024)** — Level 5 in Data Analysis and Python.
- **DataCamp (2023)** — Intermediate Python; Introduction to R.
- **SPSS 26 for Beginners (Udemy, 2022); Survival Analysis using SPSS (Udemy, 2023)**.
- **Machine Learning (Coursera/Stanford, 2019)** — supervised/unsupervised learning, SVM, regularisation, etc.
- **Health Informatics on FHIR (Georgia Tech/Coursera, 2019)**.
- **One Million Arab Coders (Udacity, 2019)** — Data Analysis Track.
- **Udacity Nanodegrees (2021–2022)** — Front-End Web Development (2021); Advanced Full-Stack (Feb 2022); React Development Cross-Skilling (May 2022).
- **DAAD Bioinformatics Winter/Summer Schools (2019)** — radiogenomics, single-cell, ML in bioinformatics, Linux/R/Python.

Professional Experience

Adult Support Care Worker (part-time) — Horizon Care South West Ltd, Exeter, UK | *Jun 2023 – Sep 2024*

Provided person-centred support to help adults live independently; collaborated with MDTs on care plans; received multiple client commendations.

Web & App Testing Consultant (Freelance) — UK | *Feb 2022 – Jun 2023*

Conducted UX/UI testing and usability reviews; produced detailed feedback; identified **500+** issues and usability gaps, contributing to **~20–30%** improvements in user retention for projects.

Neuropsychiatric Resident & Head, Digital Information Centre — General Secretariat of Mental Health & Addiction Treatment (El-Azzazi), Egypt | *Dec 2016 – Dec 2018*

General adult in-/out-patient work with rotations in geriatric, addictions and child clinics; EHR/health-informatics initiatives; infection-control and medical-services committees; after-hours inpatient cover.

Neuropsychiatric Resident & Head, Digital Information Centre — Dakahliya (Demira) Mental Health & Addiction Hospital, Egypt | *Dec 2018 – Jan 2022*

Progressed psychiatric training; led EHR and data-storage facility; established a health-informatics/data-analysis function to support diagnosis/prediction/classification and service KPIs.

Psychiatric Resident (rotations incl. LD services) — Mental Health Hospitals (Egypt) | *2016 – 2022*

Delivered comprehensive psychiatric care; chaired/served on hospital committees; contributed to measurable outcomes (**~10%** fewer readmissions; **~20%** lower admin overhead) through digital initiatives.

Army Physician (Soldier) — Egyptian Armed Forces (Border Guard Forces) | *Oct 2015 – Dec 2016*

Provided physical and mental healthcare; delivered monthly health-education seminars linked with a **~30%** reduction in clinic attendances.

Football Team Physician — Haras El Hodoud SC (Border Guard FC), Cairo | *Sep 2016 – Nov 2016*

Responsible for athletes' wellbeing and injury prevention/management; coordinated care pathways; explored sports "big-data" analysis.

Primary Care Physician (GP) — Family Medicine Unit, Egypt | *Apr 2015 – Oct 2015*

Primary, maternal & child healthcare; preventive care; health education; basic medical statistics and community screening.

Intern Doctor (FY2/House Officer) — Mansoura University Hospitals, Egypt | *Mar 2014 – Mar 2015*

Rotations across internal medicine, surgery, paediatrics, obstetrics & gynae, emergency, anaesthesia, neurosurgery, haematology, gastroenterology/endocrinology/cardiology; developed clinical reasoning and robust documentation habits.

Conferences & Workshops (selection)

- 10th Annual Congress on Child & Adolescent Psychiatry (CME 24h), Cairo, 2020.
- 31st Egyptian Psychiatric Association Annual Conference (CME 18h), 2019.
- 15th Pan-Arab Psychiatric Conference (CME 20h), 2018.
- CBT for Psychosis (Institute of Psychiatry, ASU), 2017; EPA Introduction to CBT, 2018.

Volunteering

Mansoura Students' Scientific Association (MSSA) / IFMSA — medical campaigns, educational activities, and IT team (website & data). Resala Charity Organisation — medical projects, blood bank work, and IT team contributions.

Professional Memberships

- **Egyptian Medical Syndicate** — ID **261755**.
- **American Psychiatric Association (APA)** — ID **281851** (International Resident-Fellow).