

# Rana Ibrahim Mohamed

AI Full-Stack Developer

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## SUMMARY

Data Manager with a strong background in data analytics, engineering, and application development. Experienced in designing and managing end-to-end data systems, ensuring accuracy, security, and scalability. Proficient in **Python**, **SQL**, **Power BI**, and data integration frameworks, with proven ability to transform raw data into actionable insights that support strategic decisions.

## TECHNICAL SKILLS

**Languages:** Python, Java, C++ • **Databases:** MySQL, SQLite, PostgreSQL • **Frameworks & libraries:** Django REST, React, FastAPI, TensorFlow, scikit-learn, spaCy • **ML/NLP:** TensorFlow, scikit-learn, spaCy, Word2Vec, TF-IDF, CNNs, Hugging Face, Orange Data mining • **Tools:** Git, Jupyter Notebook, Linux, Power BI, Linux

## PROFESSIONAL EXPERIENCE

- Full Stack Python Developer (Open Source Track), ITI** Jul 2025 – Present | New Capital  
• Enrolling in an intensive full-stack development program covering front-end (React, HTML/CSS/JS) and back-end (Django REST Framework, PostgreSQL).  
• Deployed REST APIs integrating user authentication, file handling, and database optimization.  
• Collaborating on open-source projects with Git version control and CI/CD practices.

- Artificial Intelligence Trainee, NTI & Huawei** Apr 2025 – Jun 2025 | Giza, Egypt  
• Gained hands-on experience with regularization techniques such as L1, L2, and dropout to reduce overfitting.  
• Built and evaluated Convolutional Neural Networks (CNNs) for image classification tasks.

## EDUCATION

- Cairo University, Faculty of Computers & Artificial Intelligence, B.Sc. in Computer Science** Sep 2020 – May 2024 | Giza, Egypt  
• **GPA:** 3.23 / 4.0  
• Graduation project **ranked** among the Top 10 projects with an A+ grade

## CERTIFICATIONS

- Machine Learning Specialization- Coursera, Andrew Ng - Sep 2023:** Implemented recommendation systems and regression models.

- HCAI Certified - NTI(Jul 2025):** Scored 920/1000 in AI proficiency assessment

## PROJECTS

- Bash DBMS (CLI)** Aug 2025  
• Built a lightweight, menu-driven database engine in Bash that stores data on disk, supports tables with inline schemas, and full CRUD with validation and filtered queries.  
• **Tech Stack:** Bash, awk, sed, grep, UNIX file I/O, regex, Linux CLI

- Smartphone Market Analysis, Power BI Dashboard** Apr 2025  
• Designed and developed a Power BI analytical dashboard to explore smartphone market data. Conducted data modeling, created DAX measures, and built interactive visualizations comparing brands, prices, camera counts, RAM, and storage. Generated insights identifying leading brands and correlations between technical specs and pricing

- Car Price Prediction (Kaggle Competition)** Apr 2025  
• Built a regression model using Ridge Regression to predict car prices based on 15+ numerical and categorical features. Engineered pipelines for feature encoding, scaling, and imputation.  
• Ranked in the top 25% of the competition with an RMSE.

- Data Analytics & Power Bi, Freelance project on Kafil** Mar 2025  
• Gained hands-on experience in data filtering, pivot tables, and creating charts for analysis on Excel and Power BI.

- Book Recommendation System Based on Emotions** Jul 2024  
• Developed and deployed a recommendation system analyzing 100K+ book reviews to extract **emotions** to classify books based on the top 3 emotions. search by entering a sentence or selecting a specific emotion.  
• **Tech Stack:** Django REST Framework, React Native, NLP.

- GameRental, database project** May 2023  
• Designed and implemented a Game Rental System using C# Windows Forms using relational schema design (ER diagrams + DDL), seed data and example queries (DML), GUI implementation (forms for managing vendors, games, clients, rentals, and returns), and data-driven reports for business insights.