

# Youmna Elshimy

**Aspiring Data Analyst / AI Engineer / Software Engineer**

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## CAREER OBJECTIVE

Recent Computer Science (Honours) graduate with a strong foundation in AI, machine learning, and data engineering. Proficient in Python, Java, R, C++, SQL/NoSQL databases, and frameworks such as TensorFlow, PyTorch, and Scikit-learn. Experienced in developing AI models and conducting data analysis through hands-on projects. Currently completing Google's Data Analytics Professional Certificate and preparing for the CompTIA Data+ and Microsoft PL-300 certifications. Actively pursuing entry level opportunities to contribute to real-world AI projects and grow within a collaborative software development team.

## SKILLS

- **Data Analysis & Preprocessing:** Data Mining, Data Manipulation, Data Preprocessing, Exploratory Data Analysis (EDA), Cross-Validation
- **Database Technologies & Management:** Relational Databases (MySQL, Oracle SQL, Google BigQuery), Non-Relational Databases (MongoDB), ELT processes, Data Warehousing, Database Administration, Database Design, Database Development
- **Model Evaluation & Metrics:** Confusion Matrix, Precision, Recall (Sensitivity), F1 Score, AUC-ROC, Accuracy, Specificity
- **Spreadsheet Tools:** Microsoft Excel, Google Sheets, Pivot Tables, Functions (VLOOKUP, IF, COUNTIF, etc.)
- **Data Visualization Tools:** Looker Studio, Tableau, Matplotlib, Seaborn
- **Programming Languages & Web Technologies:** Python, R, Java, C++, JavaScript, HTML, CSS
- **AI & Machine Learning:** Supervised Learning (Decision Trees, Random Forests, Linear Regression, Logistic Regression, Support Vector Machine (SVM)), Unsupervised Learning (K-Means), Image Processing, Text Processing, Time Series Forecasting, Hyperparameter Tuning (Grid Search, Random Search, Bayesian Optimization)
- **Deep Learning Frameworks:** TensorFlow, Keras, PyTorch
- **Software Development:** Object-Oriented Programming (OOP), Microservices Architecture, Domain-Driven Design (DDD), RESTful API Development, Event-Driven Stream Processing, Version Control (Git, GitHub), Software Testing & Debugging, Agile Methodologies, AWS (S3, EC2, Lambda)
- **Software & Tools:** RapidMiner, Apache Kafka, IDEs (RStudio, Google Colab, VS Code), Jira, Trello, Gantt Charts
- **Soft Skills:** Problem-solving, Critical Thinking, Analytical Thinking, Attention to Details, Communication, Teamwork, Fast Learner, Goal-Oriented, Time Management, Project Management, Driven, Resilience, Leadership

## PROJECTS *(more projects available upon request or on portfolio website)*

### Text Classification Using Neural Networks

Jun 2025

- Developed a neural network to classify 2,225 BBC news articles into six categories using NLP techniques.
- Preprocessed text data with tokenization, stopwords removal, and padding for model input.
- Built a neural network model using Keras (TensorFlow backend) with embedding, pooling, and dense layers.
- Achieved 99% training and 95% validation accuracy.

### Business Flow Microservices System

Aug 2023 – Sep 2023

- Led a 3-member team, managing roles, deadlines, and weekly progress meetings.
- Built and integrated microservices (Sales, Procurement, Customer Account, Analytics).
- Applied DDD and Kafka-based Event-Driven Architecture for service communication.
- Delivered a 4-microservice e-commerce system with full documentation and stream processing.

## CERTIFICATIONS & Memberships *(Full list available upon request or on LinkedIn & portfolio)*

### ACS Member | Australian Computer Society (ACS)

Mar 2025 - Present

### Google Data Analytics Professional Certificate | Google

Mar 2025 - Present

### Applied Deep Learning | MaharaTech

Jun 2025

EDUCATION

Professional Year in IT   QIBA, Australia	Mar 2025 - Present
Honours in Computer Science   University of Wollongong, Australia	Feb 2024 – Nov 2024
Achievements – Distinction WAM	
Bachelor of Computer Science (Software Engineering)   University of Wollongong, Australia	Mar 2021 – Nov 2023
Achievements – Distinction WAM, Undergraduate Excellence Award, Collaboration, Communication Learning Stream Award, & Leadership Learning Stream Award, UOWx Award	
Foundations Studies Program   University of Wollongong College, Australia	Jun 2020 – Feb 2021
Achievements – High distinction WAM, Outstanding Achievement Award	

EMPLOYMENT HISTORY

Exam Invigilator, Scribe, and Reader   University of Wollongong, Australia	Apr 2024 – Nov 2024
<ul style="list-style-type: none"><li>Ensuring exam conditions were followed and prohibited materials were removed.</li><li>Acting as a scribe and/or reader, transcribing answers and reading questions aloud as needed.</li><li>Supervising the student to prevent academic misconduct.</li><li>Recording key exam details, including timing, incidents, and observations.</li></ul>	
Student Accessibility Peer   University of Wollongong, Australia	Feb 2024 – Nov 2024
<ul style="list-style-type: none"><li>Providing organised, reliable support to students with disabilities to enhance their university experience.</li><li>Assisting students with moderate access needs in labs and ICT tasks, offering guidance and organizational strategies.</li><li>Tutoring students during lab sessions, including reading materials and transcribing responses when needed.</li><li>Reporting any critical incidents to supervisors.</li></ul>	
Student Brand Ambassador   Campus Group, Australia	Feb 2024 – Oct 2024
<ul style="list-style-type: none"><li>Promoted client businesses on university campuses through creative and engaging marketing campaigns.</li><li>Exceeded daily sign-up targets, achieving 20+ sign-ups/day in a DoorDash campaign with a 10-signup goal.</li></ul>	
Student Accessibility Assist   University of Wollongong, Australia	Jul 2023 – Nov 2024
<ul style="list-style-type: none"><li>Edited and formatted transcripts generated by speech recognition software to ensure clarity and accessibility.</li><li>Delivered accurate transcripts within 2 days of video upload to support inclusive education.</li></ul>	
Customer Solutions Specialist   ProbeCX, Australia	Mar 2023 – Apr 2023
<ul style="list-style-type: none"><li>Responded to inbound voter enquiries during the NSW State Election within set timeframes.</li><li>Assessed individual voter circumstances and delivered guidance aligned with electoral policies.</li></ul>	

VOLUNTEERING

EIS Mentor   University of Wollongong, Australia	Jul 2024 – Nov 2024
<ul style="list-style-type: none"><li>Guided EIS students through university systems and resources.</li><li>Organized workshops on Python, web development, machine learning, and cryptography.</li><li><b>Achievements:</b> Awarded certificate of recognition for mentoring.</li></ul>	
Technology Assistant Volunteer   Illawarra Multicultural Services, Australia	Mar 2024 – Jun 2024
<ul style="list-style-type: none"><li>Assisted multicultural community members with device troubleshooting and account setup.</li><li>Delivered digital literacy sessions tailored by age group on topics like online safety and AI.</li></ul>	
Pulse Volunteer & Pantry Leader   UOW Pulse, Australia	Jul 2022 – Nov 2024
<ul style="list-style-type: none"><li>Managed volunteer teams and pantry operations supporting student wellbeing.</li><li>Maintained inventory, recorded visits, and ensured smooth event setups.</li><li><b>Achievements:</b> Recognized as Volunteer of the Month (Feb 2024) and received Innovation &amp; Community Award for improving pantry systems, efficiency and service delivery.</li></ul>	
Cisco MentorMe Program Mentee   Cisco, Australia	Aug 2022 – Sep 2022
<ul style="list-style-type: none"><li>Participated in job shadowing with industry professionals in software engineering and marketing.</li></ul>	
Study Australia Industry Experience Program Participant   Practera, Australia	Nov 2021 – Jan 2022
<ul style="list-style-type: none"><li>Collaborated with a diverse team to research, strategize, and present solutions for not-for-profit client: Murriss on the Move.</li><li><b>Achievements:</b> Earned “Deal Book Program Completer” badge.</li></ul>	

REFEREES

Available upon request