

Younna 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 PI-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
<ul style="list-style-type: none">• 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.	
Assessing Generalisation Gaps in Image Classification	Sep 2024 – Oct 2024
<ul style="list-style-type: none">• Managed a 3-member team, coordinating tasks, timelines, and meetings.• Investigated generalization gaps between ImageNet and ImageNetV2 using CNN models in Python.• Tuned hyperparameters to improve model performance, achieving 0.89 (ImageNet) and 0.81 (ImageNetV2) accuracy/F1.• Created performance visualizations and documented analysis in a detailed report.	

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

VOLUNTEERING

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

REFEREES

Available upon request