

Ahmed Ikram | Computer Science Student | Aspiring Developer

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Professional Profile

Computer Science student at University of Dundee specialising in AI and Data Science. Well Skilled in Python, Java, and AWS, with projects spanning cloud-hosted ML models and scalable web applications. Eager to apply technical expertise and initiative in an Industry placement role, where deemed necessary.

Education

High School of Dundee

Aug 2018 – June 2023

- Achieved A in National 5 Computing Science, Maths, English, Economics and Physics.
- Achieved A in Higher Computing Science, Maths and English.

University of Dundee

BSc (Hons) Computer Science (Data Science and AI)

Sep 2023 – Present

- Focus on AI, Data Engineering and Analytics through specialised modules:
 - **Introduction to Artificial Intelligence & Machine Learning** - Fundamentals of AI/ML, problem solving with models, evaluation.
 - **Data Engineering** - Data warehouses, cloud services, continuous deployment, and handling large datasets.
 - **Data Visualisation Analytics** – Extract insights from large datasets using statistical inference, data mining, and industry-standard visualisation tools.
- **Expected Graduation:** June 2028

Projects

StockLens Mobile App | React Native, Python, Flask, APIs

- Engineered a React Native mobile application that gamifies saving by transforming spending data into personalized investment insights. Users can scan receipts (using image processing/OCR) or manually input totals.
- Demonstrated financial analysis by calculating the historical and projected value of that spending amount if invested in chosen stocks (e.g., S&P 500) over user-defined periods (X years ago or X years from now).
- Showcased proficiency in mobile development (React Native), backend logic, and developing a compelling user experience around personal finance.

AI Movie Recommendation App | Python, Flask, HTML, JavaScript, CSS

- Built a full-stack recommendation system using collaborative, content-based, and hybrid ML models on the MovieLens dataset (100k+ ratings, 9.7k movies).
- Delivered a Flask web app with interactive AI generated recommendations, achieving Precision@10 ≈ 0.22 and Hit Rate ≈ 0.75.

Haggis Data Mining | Jupyter Notebook, Python

- Built an end-to-end machine learning pipeline for 344 multivariate records, successfully classifying 3 distinct species using 4 algorithms(K-Means, Decision Trees, KNN, Logistic Regression).
- Optimized model performance through Feature Engineering and Hyperparameter Tuning, achieving [X]% accuracy and validating results using F1-Score and Confusion Matrix analysis.

Supermarket Dataset Data Dashboard | Excel

- Synthesized a large-scale retail dataset into a dynamic executive dashboard, tracking 5+ critical KPIs (including Profit Margin and Regional Sales) to identify loss-making sectors.
- Engineered interactive elements using Pivot Tables and Slicers, reducing time-to-insight for upper management by visualizing trends across multiple product categories and regions.

Rental Car Company | C++

- Engineered a modular rental management system with polymorphic vehicle types, loyalty/discount handling, late fees, fuzzy search, and file persistence.
- Showcased advanced OOP, scalable system design, and defensive programming practices.

Technical Skills

Category	Technologies
Programming	Python, Java, C, C++, Shell Scripting (Bash)
Cloud & DevOps	AWS (EC2, S3, Lambda), Docker, Git, GitHub , Familiar with CI/CD Pipeline
Data & ML	SQL, Jupyter Notebook, Pandas, NumPy, Scikit-learn , PyTorch and Matplotlib
Web & Mobile Dev	HTML, CSS, JavaScript, React, Flask, Bootstrap, Tailwind CSS, React Native, TypeScript
Tools & OS	Linux, macOS, Windows, MS Word, MS Excel, Power BI
Databases	MongoDB, MySQL, SQL, NoSQL

Work Experience

Zulus Peri Peri Grill Dundee

Front of House Worker

June 2021 – September 2023

- Managed orders and workflows, developing systems thinking and process optimisation.
- Trained 5+ new staff, building team leadership and knowledge transfer skills relevant to tech teams.
- Balanced multiple high-pressure tasks, strengthening problem-solving, prioritisation, and communication.

Tech Relevance: Built strong foundations in process optimisation, teamwork, and knowledge transfer—directly transferable to managing cloud and AI projects.

Beauly Mini Market

Retail Assistant

September 2023 – Now

- Resolved till and stock issues, applying logical troubleshooting similar to debugging.
- Streamlined inventory and deliveries through team collaboration, reinforcing project execution skills.
- Communicated effectively with diverse customers, mirroring requirement gathering and solution explanation in tech contexts.

Tech Relevance: Gained experience in troubleshooting, requirement gathering, and clear communication, aligning with problem-solving in technical environments.

Certifications

AWS Academy Graduate - AWS Academy Cloud Foundations

Mar 2024

- Hands-on experience with EC2, S3, RDS, IAM, Elastic Beanstalk.
- Deployed scalable, secure cloud infrastructure with auto-scaling and load balancing.
- Built knowledge in cloud security, cost optimisation, and best practices.

AWS Academy Graduate - AWS Academy Machine Learning

Feb 2025

- Applied ML fundamentals with Amazon SageMaker.
- Delivered projects in data preprocessing, model training, and evaluation.
- Implemented ML models in real-world, cloud-hosted scenarios.

Transferable Skills

- ✓ **Team Collaboration:** Work effectively in teams, sharing knowledge and supporting collective goals.
- ✓ **Strategic Planning:** Efficiently plan and execute projects with foresight.
- ✓ **Problem-Solving:** Turn inefficiencies into practical, actionable solutions.
- ✓ **Risk Assessment & Decision-Making:** Make informed decisions under uncertainty.
- ✓ **Analytical Thinking:** Solve complex problems with clear, logical solutions.
- ✓ **Attention to Detail:** Deliver precise, high-quality work consistently.
- ✓ **Technical Curiosity:** Explore new technologies to innovate and improve.
- ✓ **Adaptability:** Quickly adjust to new tools, challenges, and project requirements.