**Ariba Naveed | Final Year BSc Computer Science Student**

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## Professional Profile

## I’m a final year Computer Science undergraduate at Sheffield Hallam University with strong hands-on experience in Python, C#, web development, and databases. I’m currently building a dissertation project using NLP to enhance student learning. I’m passionate about AI, cybersecurity, and software engineering, with practical labs on TryHackMe and multiple full stack projects. I’m eager to apply technical and problem-solving skills to graduate roles in software development, AI, or technology consulting.

## Core Skills

* **Programming:** Python, C#, HTML, CSS, PHP, SQL, MongoDB, Node.js, Jinja2
* **Frameworks & Tools:** Flask, Git, PWA
* **Areas of Interest:** Machine Learning, NLP, Cybersecurity, Testing
* **Soft Skills:** Problem Solving, Creativity, Adaptability, Communication

## Projects

**Animal Activity Monitoring Web App – Group Project with Elanco***Sheffield Hallam University · Feb 2025 – Apr 2025*• Built the frontend for a cloud-powered web app to classify animal behaviour using **Azure + Google Vision AI**.  
• Developed a mobile/desktop PWA with HTML, CSS, JavaScript, and Node.js.  
• Added accessibility features (Dyslexia Mode), responsive UI, form validation, and dynamic interactions.  
• Collaborated with backend developers and presented to Elanco stakeholders. **• Project overview and screenshots available on** [**GitHub**](https://github.com/meariba123/Elanco-Group-Project-)**.**

**Hospital Management System – University Coursework Project**  
*Sheffield Hallam University · Nov 2024 – Jan 2025*  
• Designed and built a hospital workflow system with role-specific dashboards for Doctors, Receptionists, and Lab Technicians.  
• Enabled appointment booking, test result updates, and email alerts for missed appointments using JavaScript.  
• Built responsive frontend (HTML/CSS/JavaScript) linked to a PHP/MySQL backend.  
• Aimed to streamline hospital data handling and reduce manual entry.  
• **Project overview available on** [**GitHub**](https://github.com/meariba123/hospitalms.git)**.**

**Connect 4 AI Game – University Coursework Project**   
*Sheffield Hallam University · Feb 2025 – Apr 2025*• Built a Connect 4 game in Python with AI agents: Random, Smart, Minimax, and a Machine Learning model trained on the UCI dataset.  
• Evaluated algorithms through **500+ simulations** to compare accuracy and efficiency.  
• Focused on search algorithms, prediction accuracy, and integrating ML into game logic.  
• Demonstrated ability to integrate **machine learning into gameplay logic**.**• Project overview available on** [**GitHub**](https://github.com/meariba123/connect4-ai-project)**.**

## Education

**BSc (Hons) Computer Science** | *Sheffield Hallam University*  
*Sep 2023 – Jul 2026 (Expected)*  
•Final year undergraduate focusing on programming, AI, ML, and algorithms.  
• Current dissertation: **Smart flashcard system using NLP** to support student learning.

**A Levels** | *Tapton School*  
*Sep 2021 – Jun 2023*  
• Computer Science, Business, Psychology

**GCSEs** | *Silverdale School*  
*Sep 2016 – Jun 2021*  
•Computer Science, Maths, English, Business, Biology, Chemistry, Physics, Geography

## Volunteering

**Paired Reading Mentor – Tapton School**   
*Sep 2022 – Jun 2023*  
• Mentored Year 8 students to build reading confidence and comprehension in weekly sessions.  
• Adapted support to individual needs, strengthening communication and leadership skills.

### References

References available upon request.

### Languages

English, Urdu

### Certifications

• **TryHackMe** – Linux Fundamentals (cat linux.txt)

• **Springpod** – Fujitsu WorkX Virtual Work Experience