AYESHA TARANUM

Master of Computer Applications Institute of Technical Education and Research Siksha 'O' Anusandhan, Bhubaneswar → +91-7008300961

■ ayeshataranum24343@gmail.com

• github.com/Ayesha-Taranum

in linkedin.com/in/ayesha-taranum-0742091a7

EDUCATION

•Master of Computer Application (MCA)

2023-25

Institute of Technical Education and Research, SOA deemed to be university, Bhubaneswar

CGPA: 8.27

•Bachelor of Science in Chemistry

2019-22

P.P College, Nischintakoili, Utkal University, Bhubaneswar

CGPA: 8.76

PROJECTS

Bias Detection & Explainability Audit Tool

June 2025 - Present

 $Python-based\ ML\ assessment\ tool\ to\ detect\ bias\ and\ explain\ model\ behavior\ using\ SHAP.$

- Tools/Frameworks Used: Python, scikit-learn, pandas, SHAP, matplotlib.
- Built an assessment tool to evaluate ML models for fairness across demographic attributes.
- Used SHAP to generate global and local explanations of model predictions.
- Calculated fairness metrics (Statistical Parity, Equal Opportunity) to identify bias.
- Created a "Model Card" to document risks, model usage, and mitigation strategies.

Attendance Query & Support Ticketing System

Jul 2024 - Aug 2024

Java/MySQL portal to log, manage, escalate, and resolve attendance queries

- Triage and categorize 250+ end-user queries via web and email, using ticketing processes.
- Monitored SLA (24 hr response), improving first-time resolution rate by 30
- Logged incidents and escalated unresolved issues per ITIL incident lifecycle.
- Automated email alerts and communicated status updates to users.

Fairness-Aware ML Pipeline Simulator

April 2025 - May 2025

 ${\it End-to-end~ML~work flow~demonstrating~bias~mitigation~and~ethical~model~documentation.}$

- Tools/Frameworks Used: Python, Fairlearn, TensorFlow, Streamlit, Git.
- Created a reproducible ML pipeline integrating Fairlearn for mitigation (reweighing, thresholding).
- Visualized metrics (TPR, FPR) across subgroups to detect performance disparity.
- \bullet Generated dashboards using Streamlit for monitoring fairness indicators.
- Documented the process using "Data Sheets for Datasets" and ethical AI audit logs.

SKILLS AND INTERESTS

Languages & Libraries: Python, Java, scikit-learn, TensorFlow, Fairlearn, SHAP, LIME, pandas, NumPy ML & Ethics Tools: Model evaluation, bias detection, explainability (XAI), model cards, data sheets

Backend & APIs: Spring Boot, RESTful APIs, Hibernate, MySQL

Dev Tools & Versioning: Git, Postman, Jupyter, Streamlit, VS Code

Documentation & Governance: Responsible AI workflows, risk documentation, fairness reports **Soft Skills**: Ethical reasoning, communication, attention to detail, analytical thinking, reporting

CERTIFICATES

- Learn Java Programming Beginner to Master by Abdul Bari, Udemy
- Data Structures and Algorithms Complete Course (C++ & Java)
- Post Graduate Diploma in Computer Applications (PGDCA)

ACHIEVEMENTS

- I secured the 77th rank on GeeksforGeeks, ranking among the top 7% performers at Siksha 'O' Anusandhan University.
- Earned multiple district-level accolades as an accomplished debater and extempore speaker, participating in 15+ competitions across school and college.
- Built and deployed 3+ full-stack web applications with real-world use cases, showcasing end-to-end software development capability.

EXTRACURRICULAR ACTIVITY

- Dancing and Reading Newspaper